



#7

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Vidal *et al.*

Appl. No. 09/988,821

Filed: November 20, 2001

For: **Cable Installation**

Confirmation No. 8685

Art Unit: 3662

Examiner: (to be assigned)

Atty. Docket: 1757.0260001

Letter to PTO Draftsman: Submission of Formal DrawingsCommissioner for Patents
Washington, D.C. 20231


Sir:

Submitted herewith are fifty-three (53) sheets of formal drawings with Figures 1, 2A, 2B, 3-53, corresponding to the informal drawings submitted with the above-captioned application. Identification of the drawings is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these formal drawings into this application is respectfully requested.

It is not believed that an extension of time is required, other than any already provided herewith. However, if an extension of time is needed to prevent abandonment of the application, then such extension of time is hereby petitioned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


Michael B. Ray
Attorney for Applicants
Registration No. 33,997Date: 6/17/021100 New York Avenue, N.W., Suite 600
Washington, D.C. 20005-3934
(202) 371-2600
MBR/agj

RECEIVED

JUL 0 1 2002

OFFICE OF PETITIONS

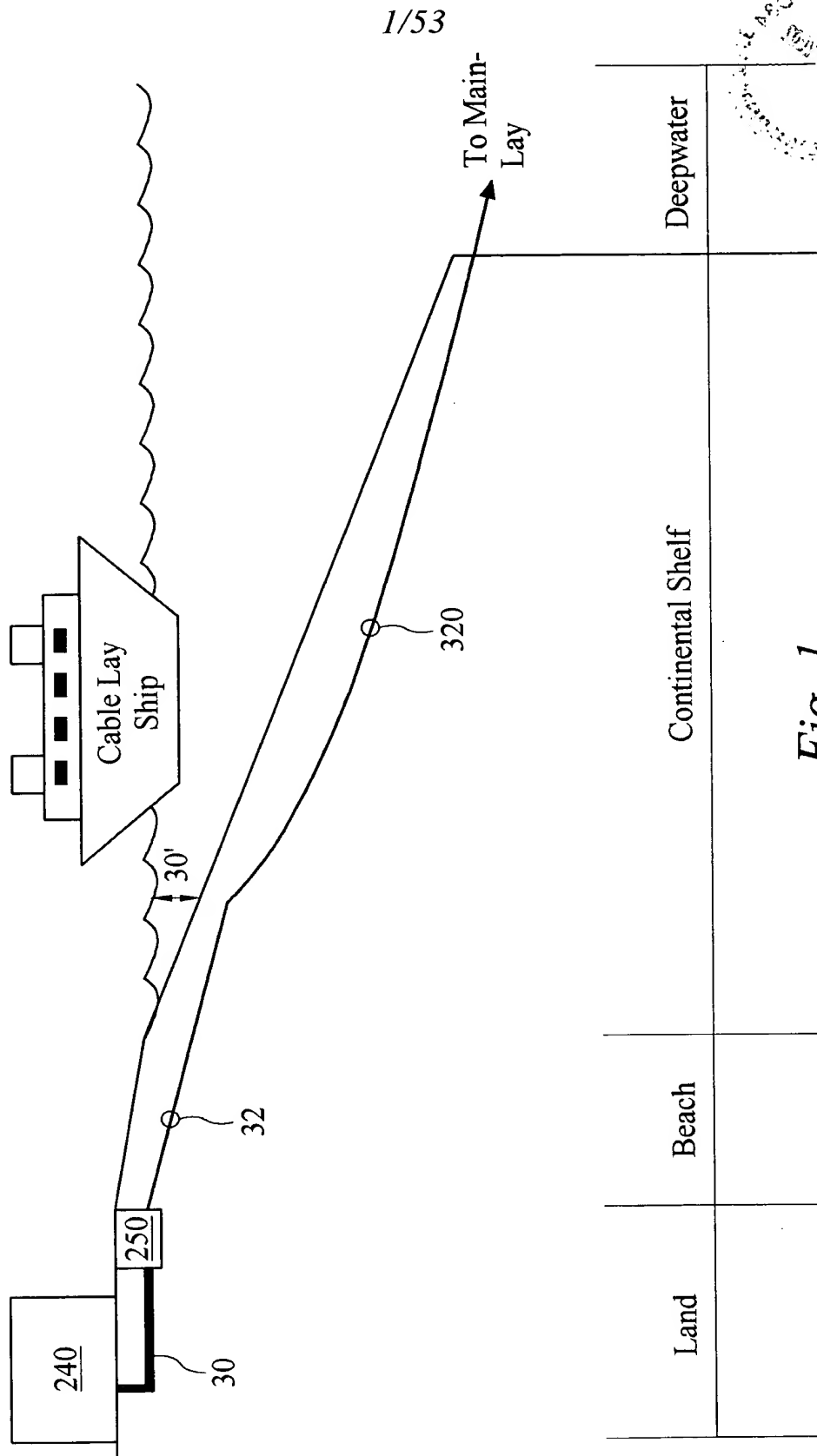


Fig. 1

Appl. No. 09/988,821; Filed: November 20, 2001
 kt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

2/53

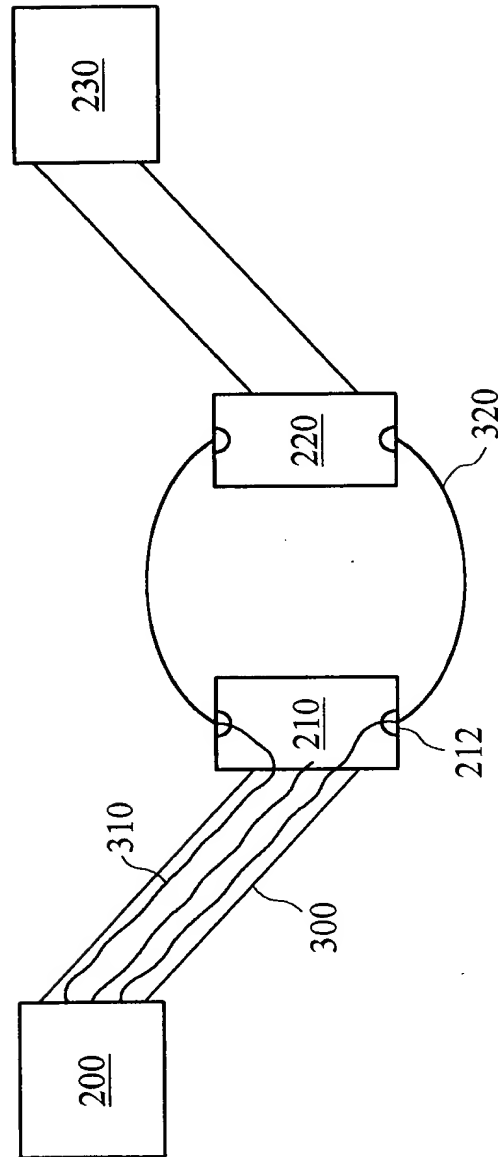


Fig. 2A

3/53

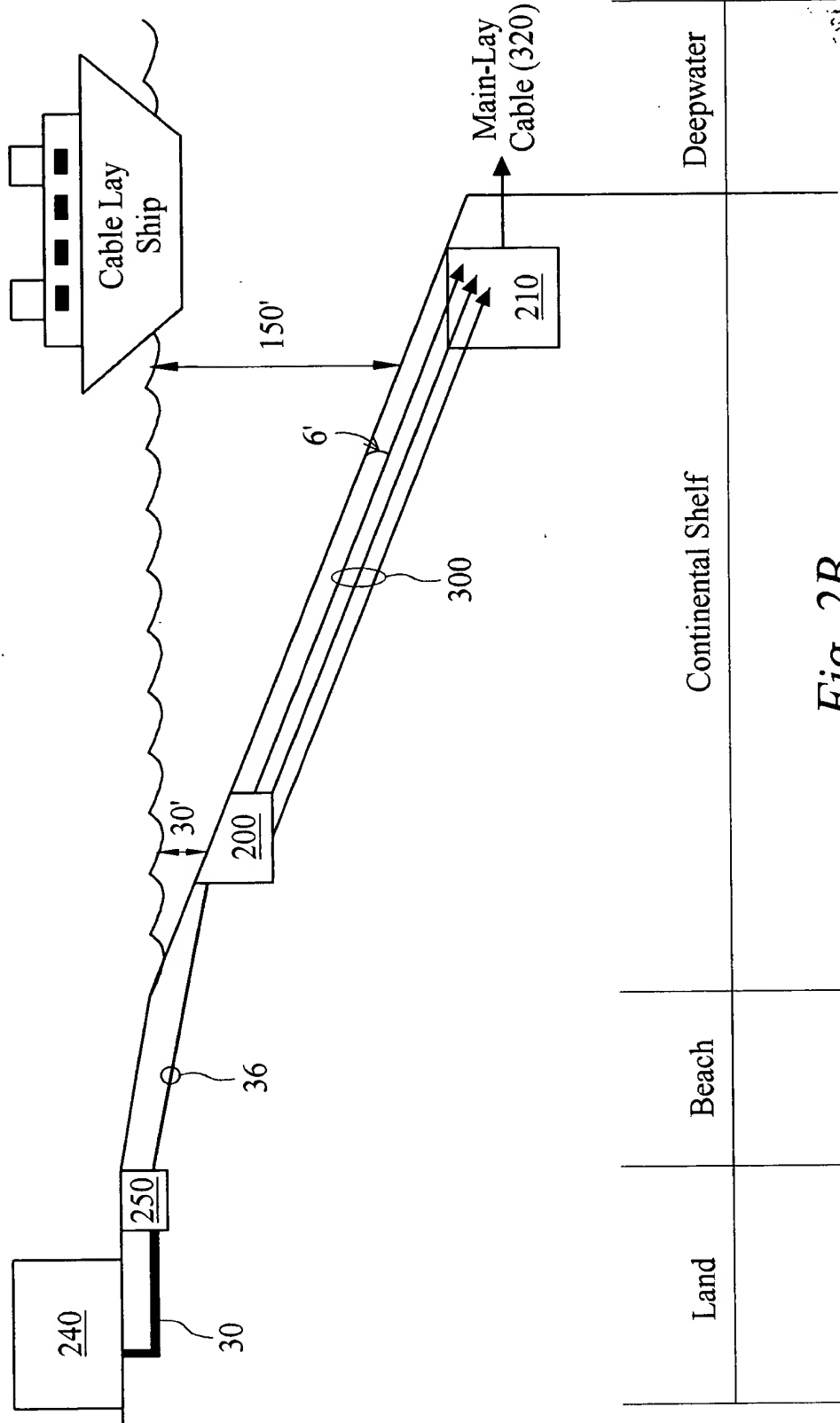


Fig. 2B

Appl. No. 09/988,821; Filed: November 20, 2001
 No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

4/53

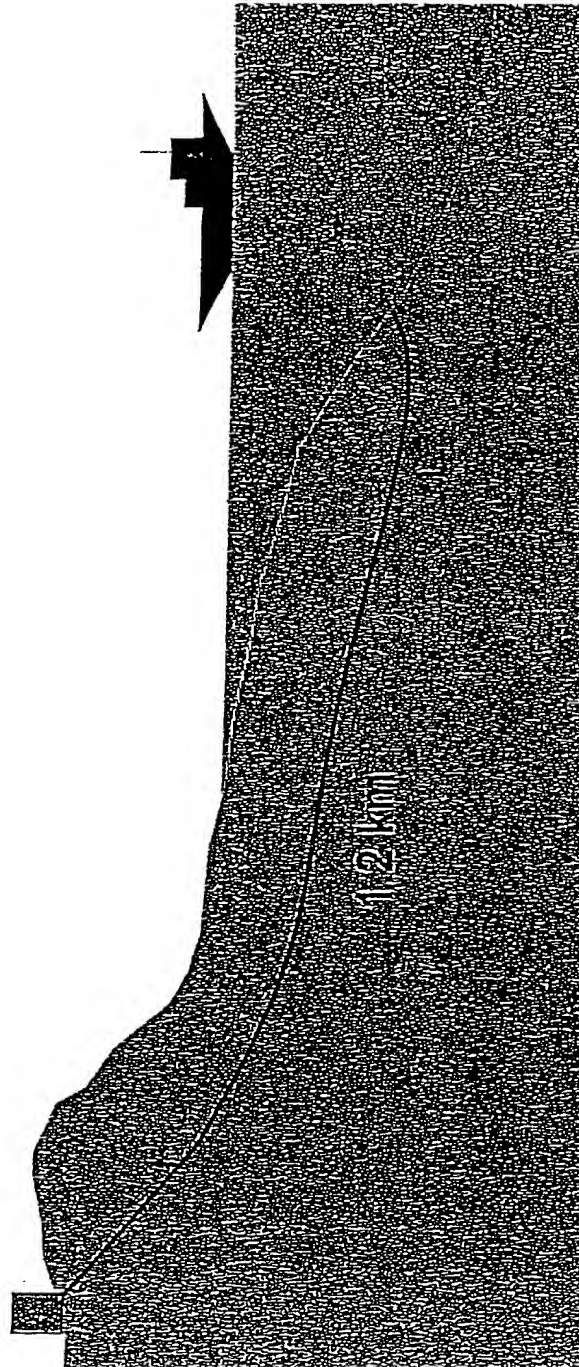
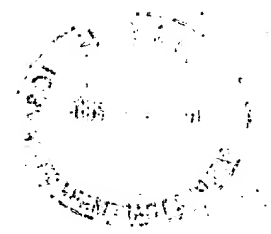


Fig. 3

5/53

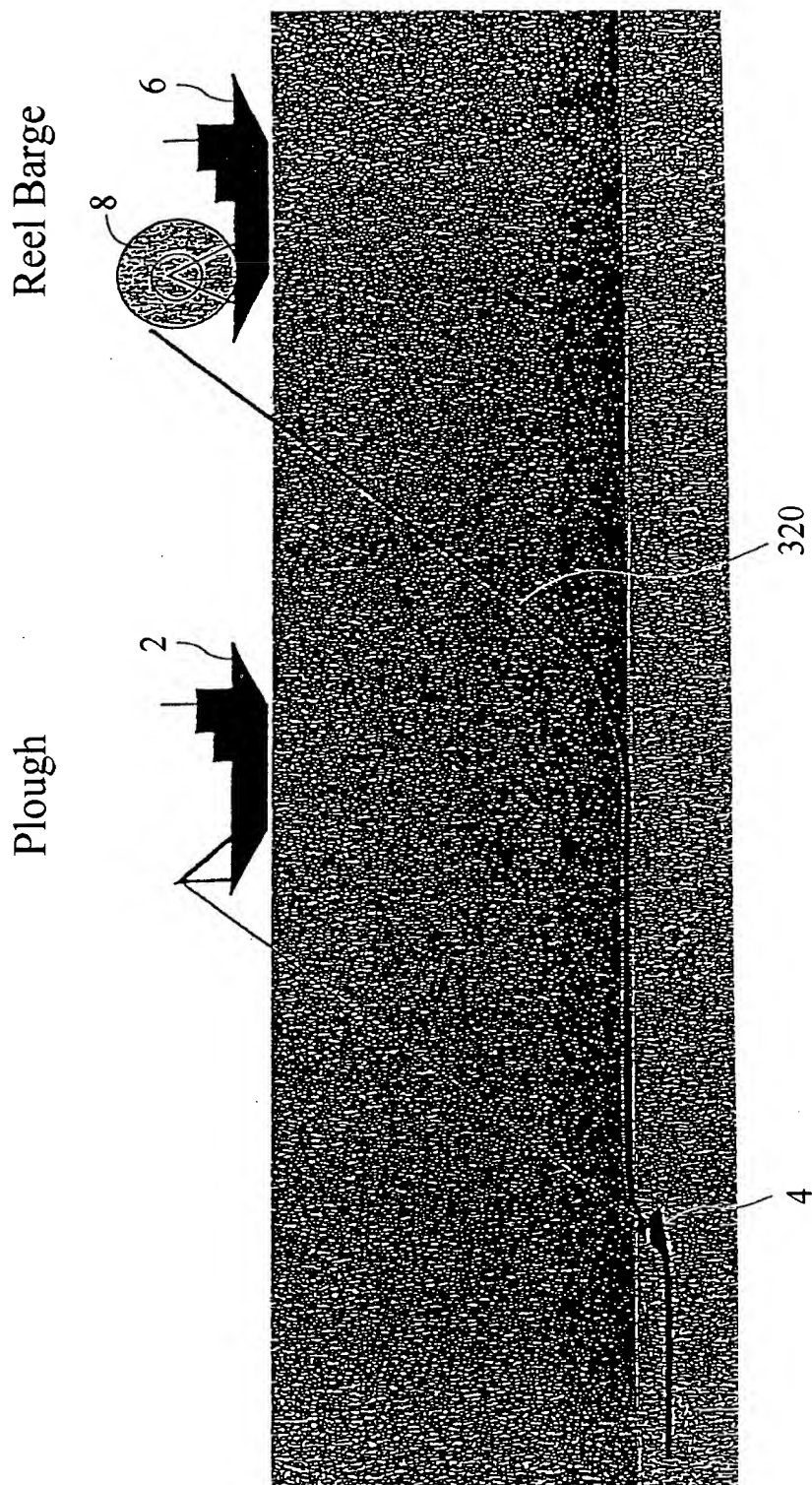


Fig. 4

6/53

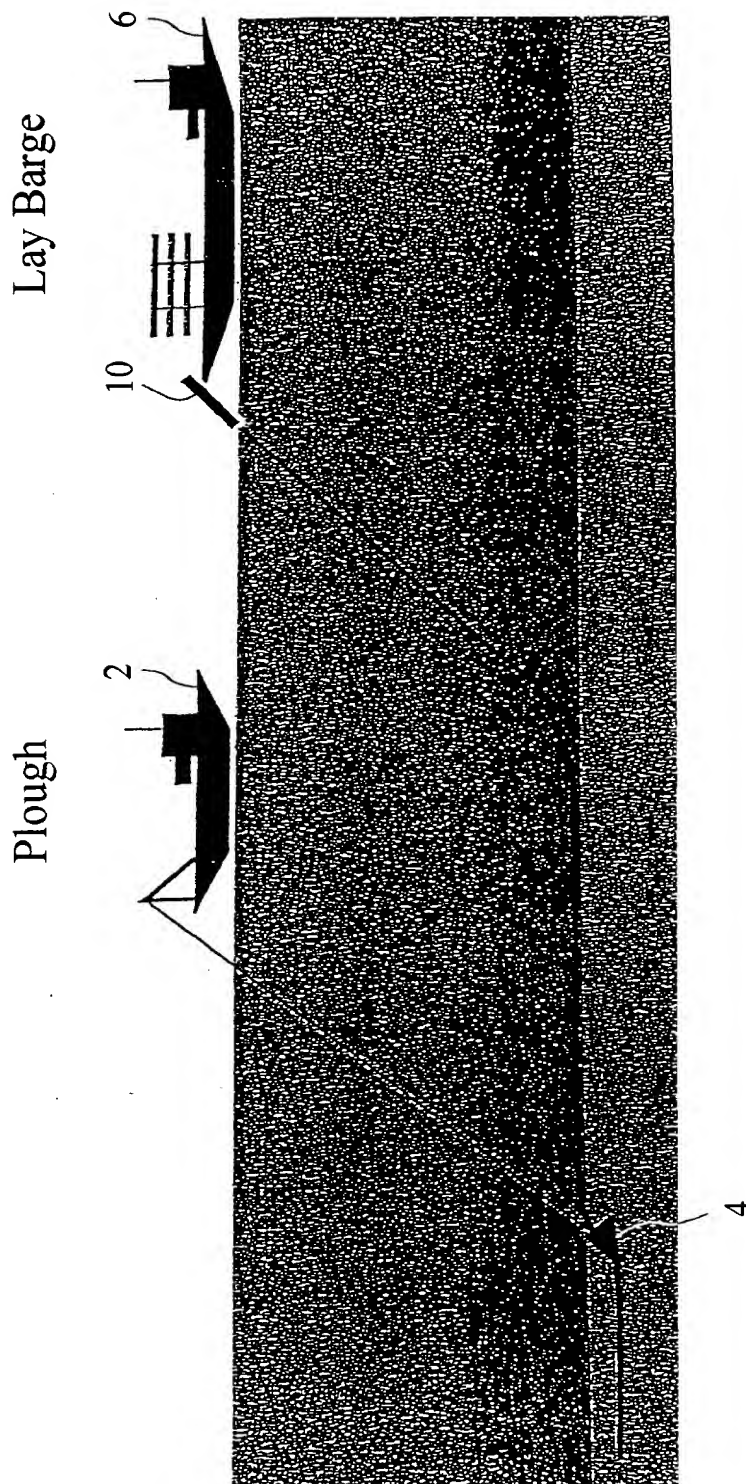
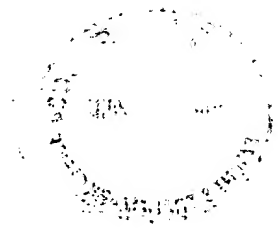


Fig. 5

7/53

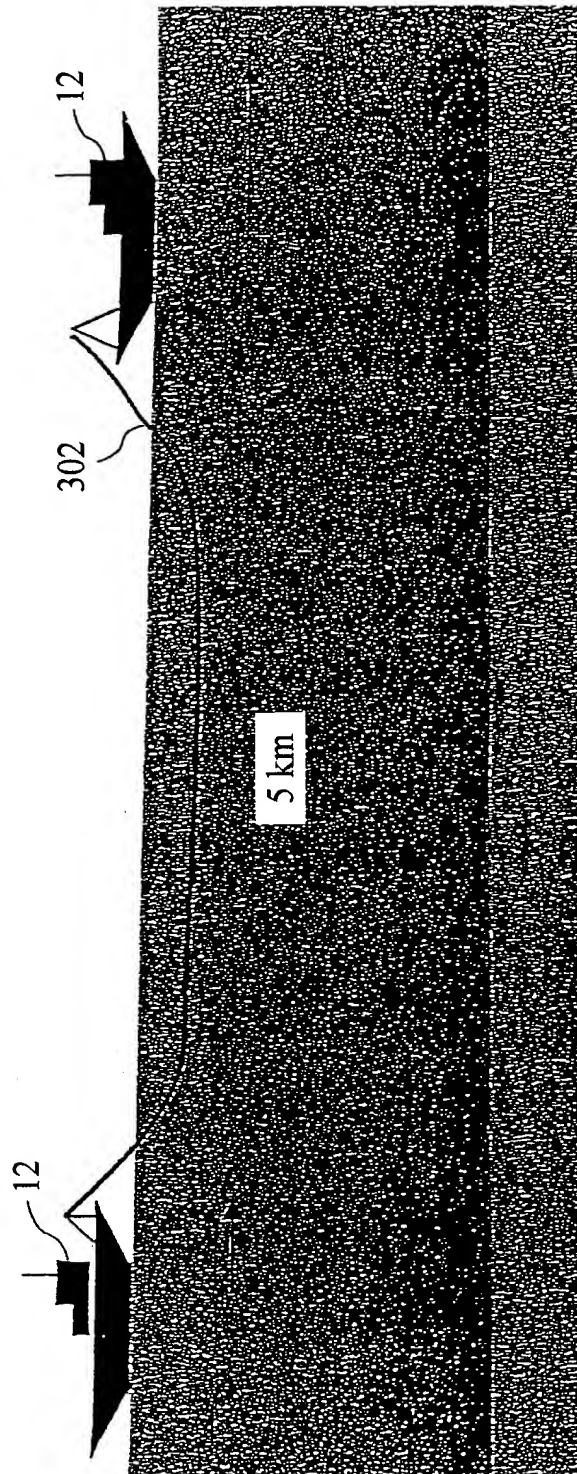
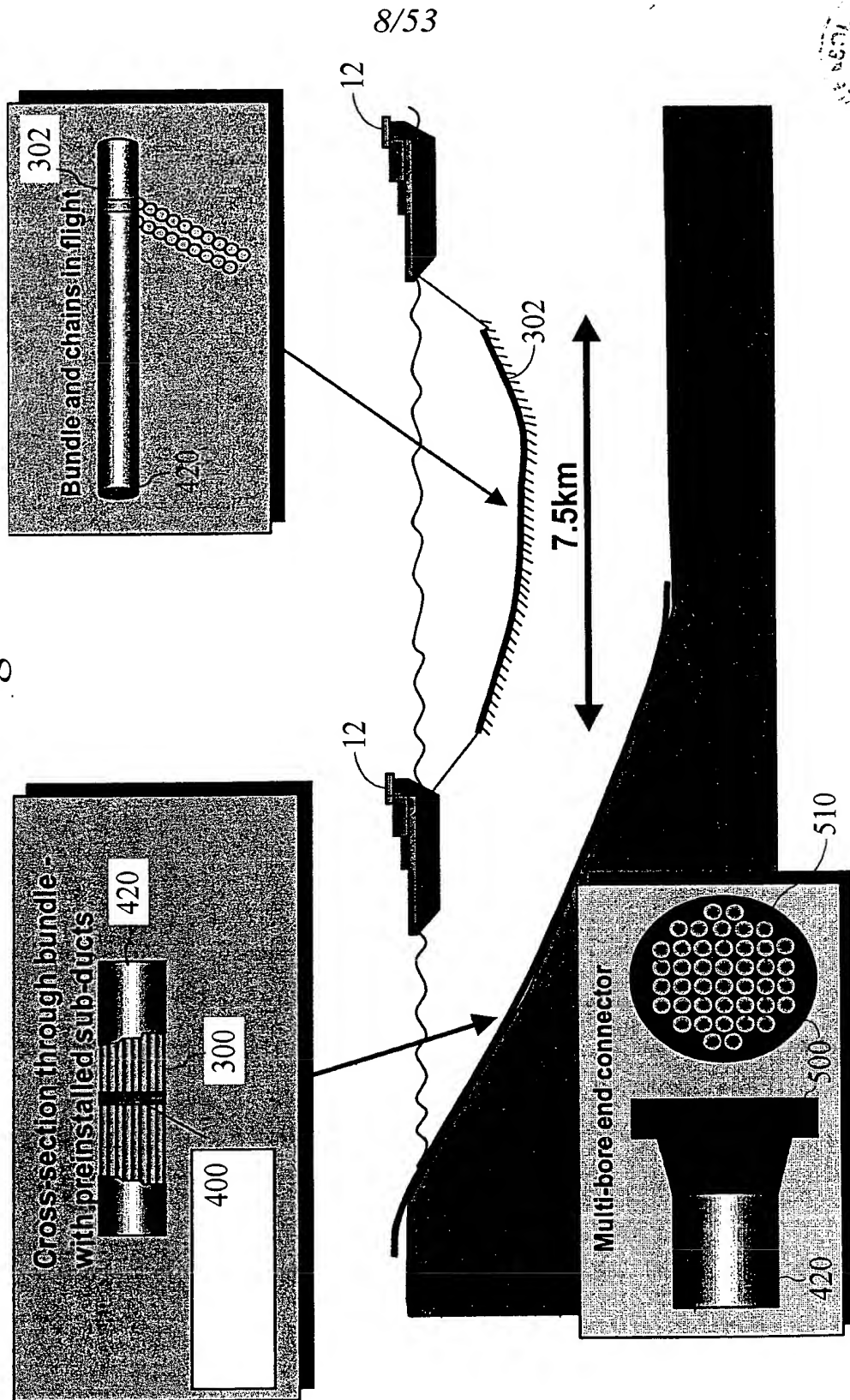


Fig. 6

Fig. 7



Appl. No. 09/988,821; Filed: November 20, 2001
 Int. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

9/53

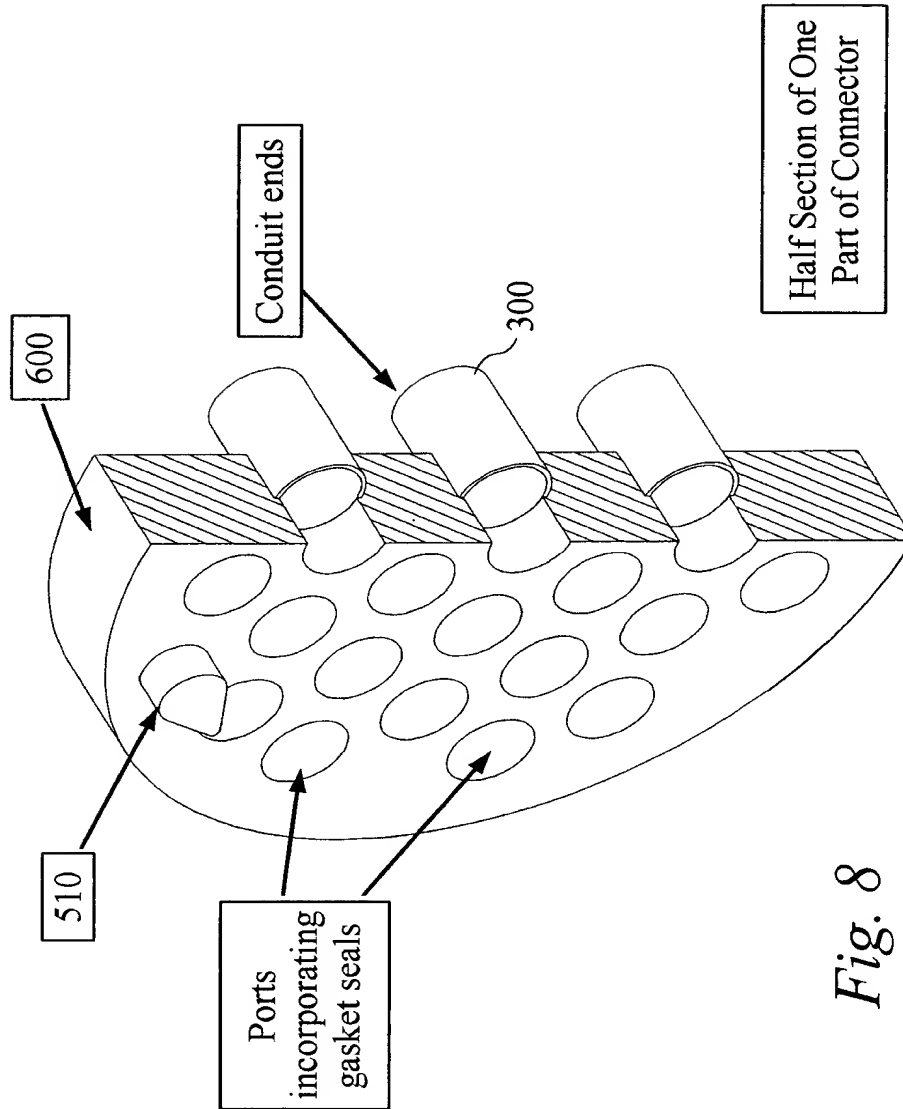
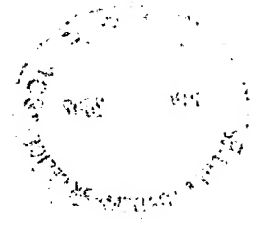
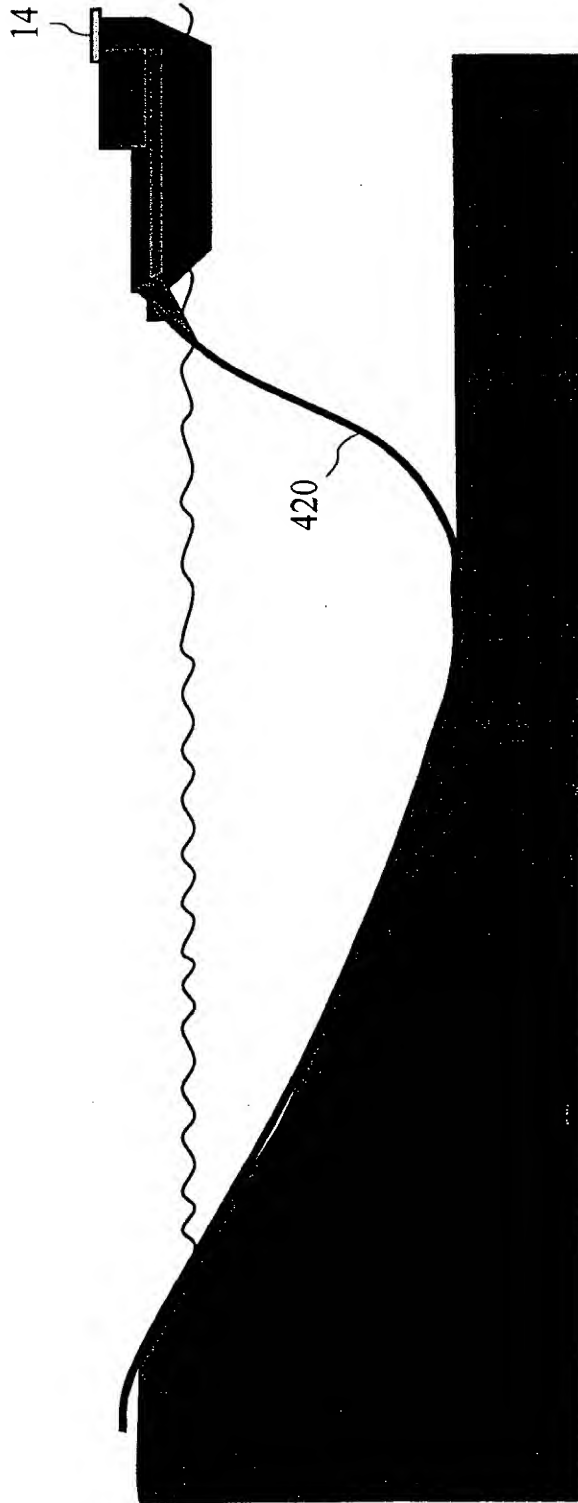


Fig. 8

10/53



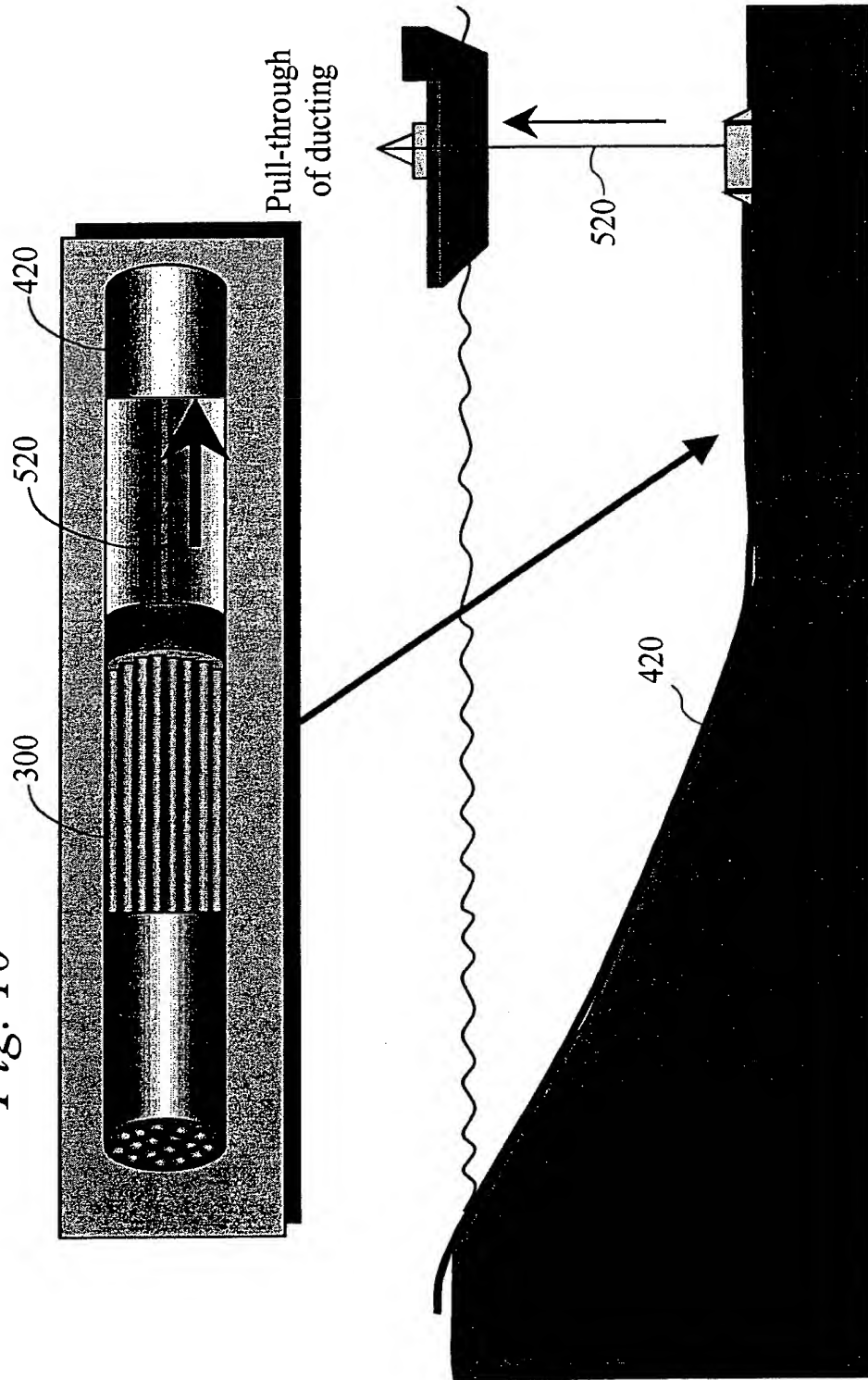
Fig. 9



11/53



Fig. 10



Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

12/53

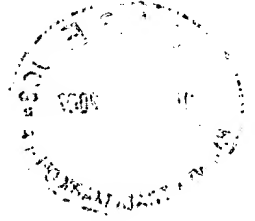
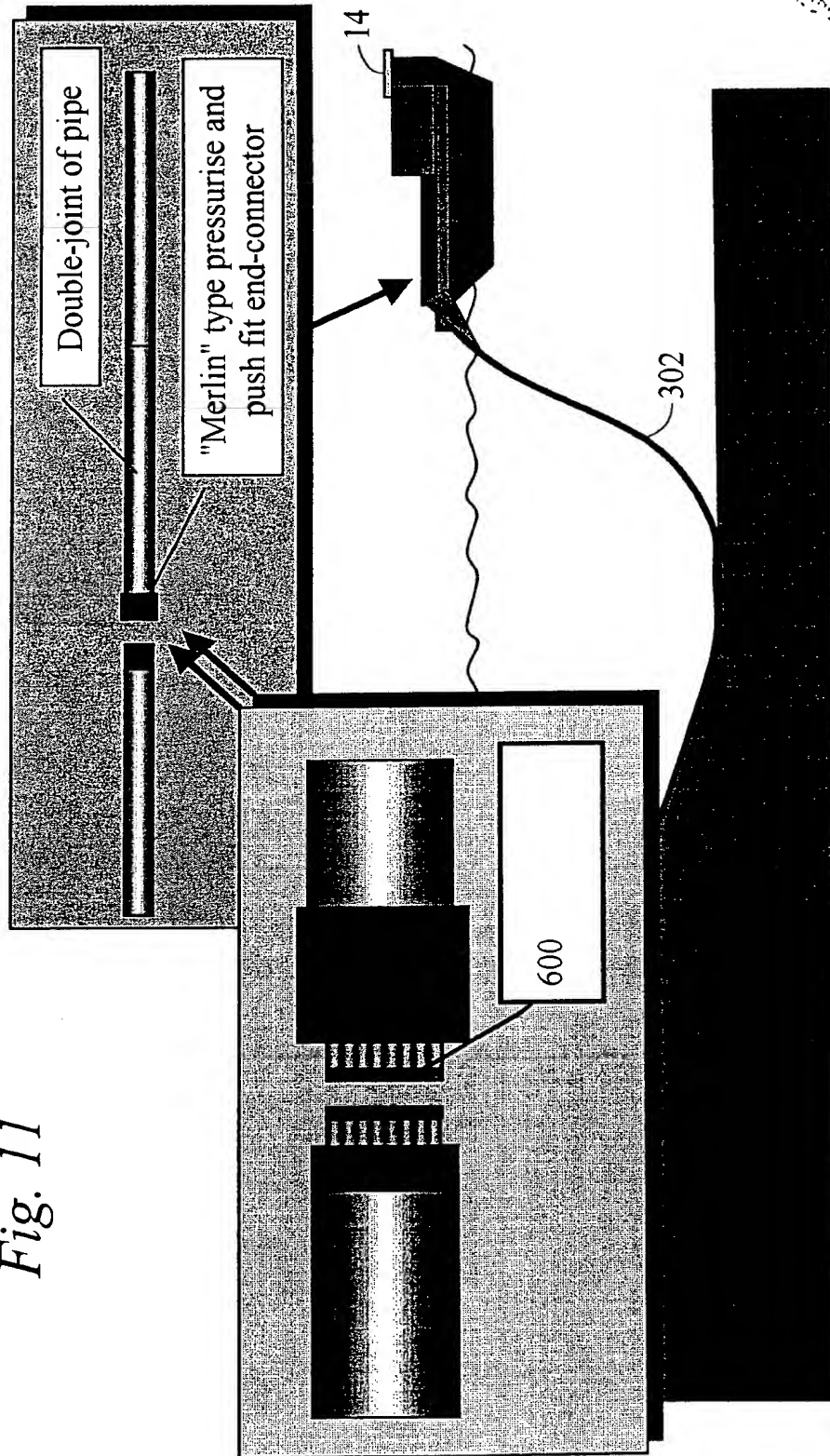
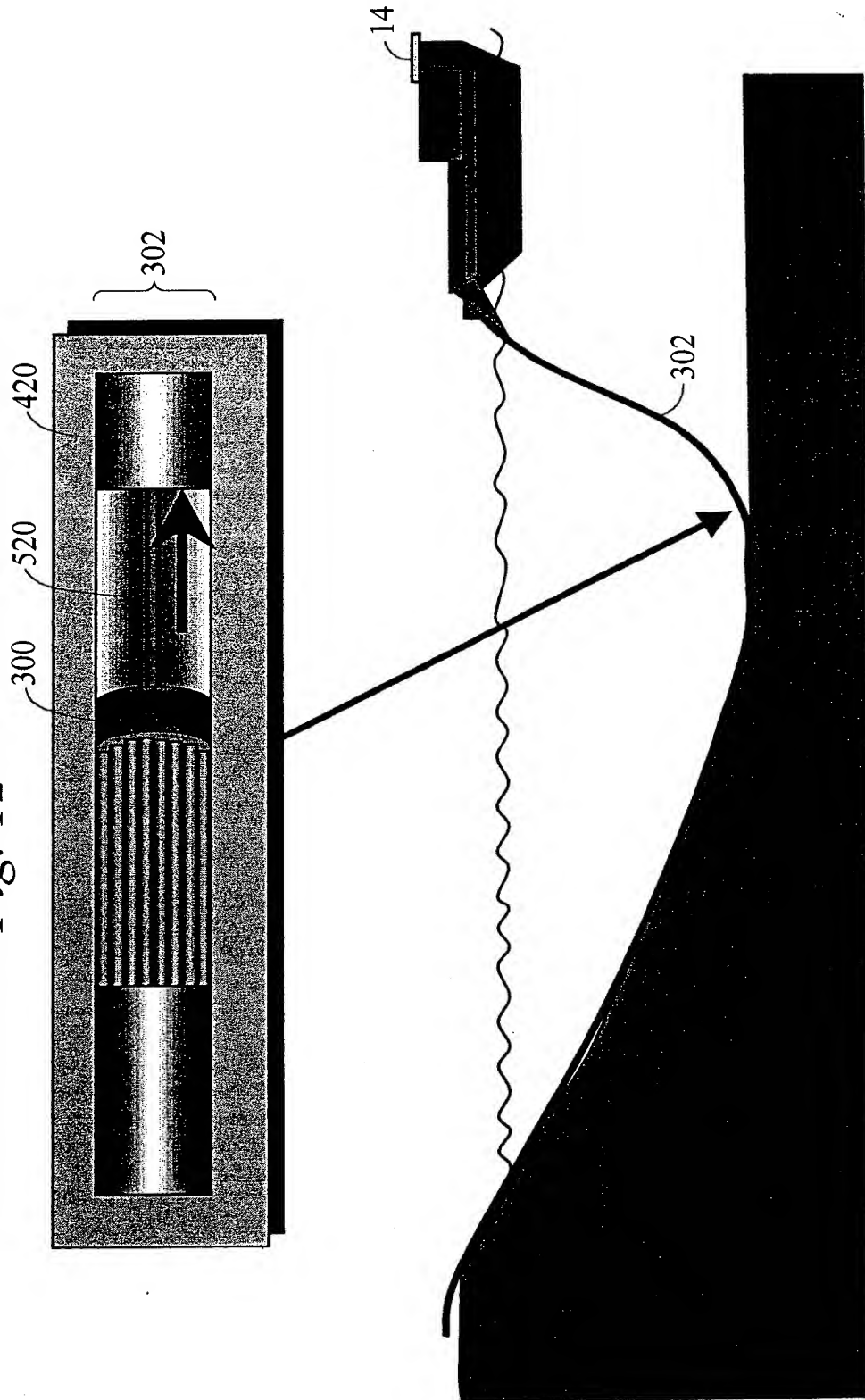


Fig. 11



13/53

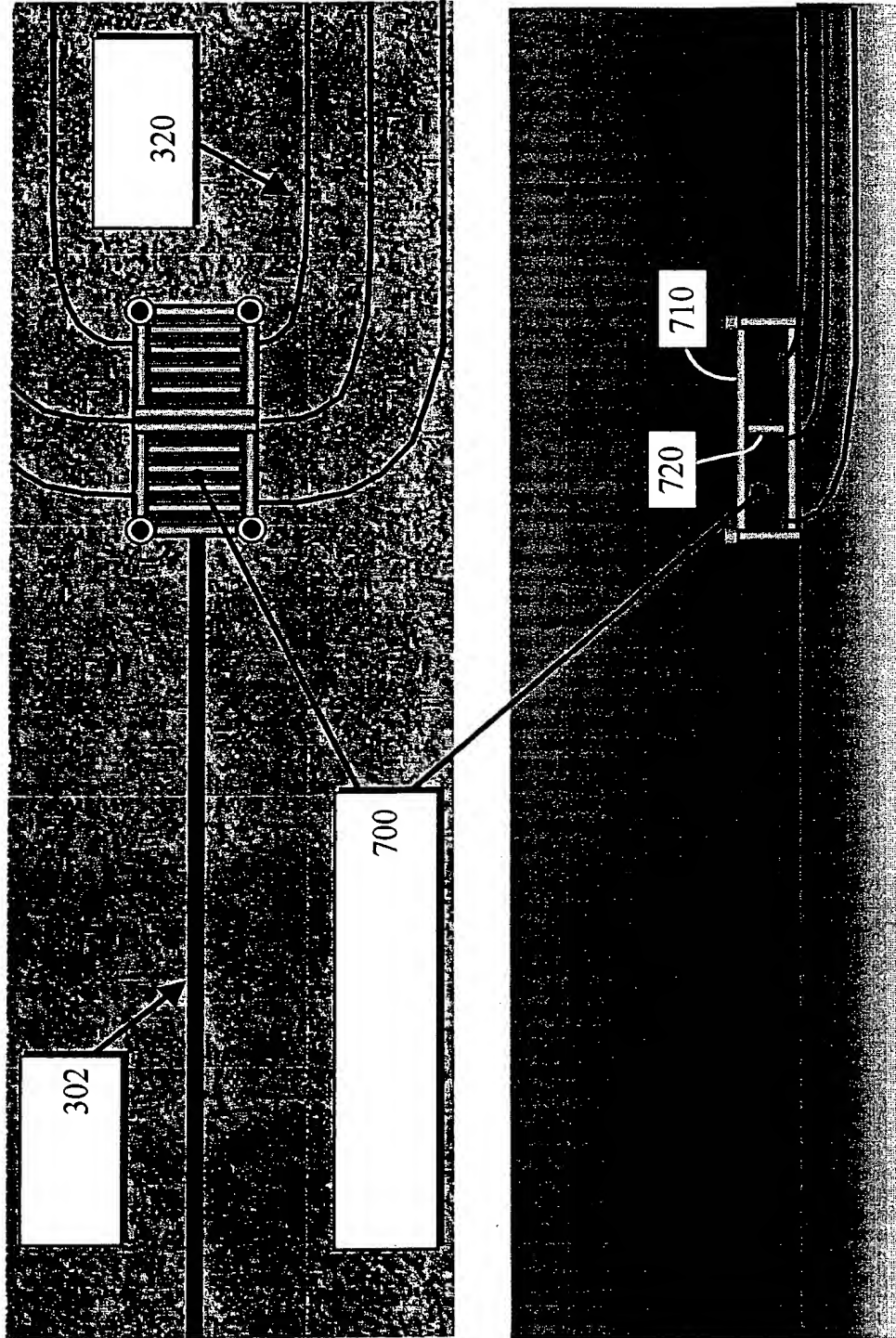
Fig. 12



14/53



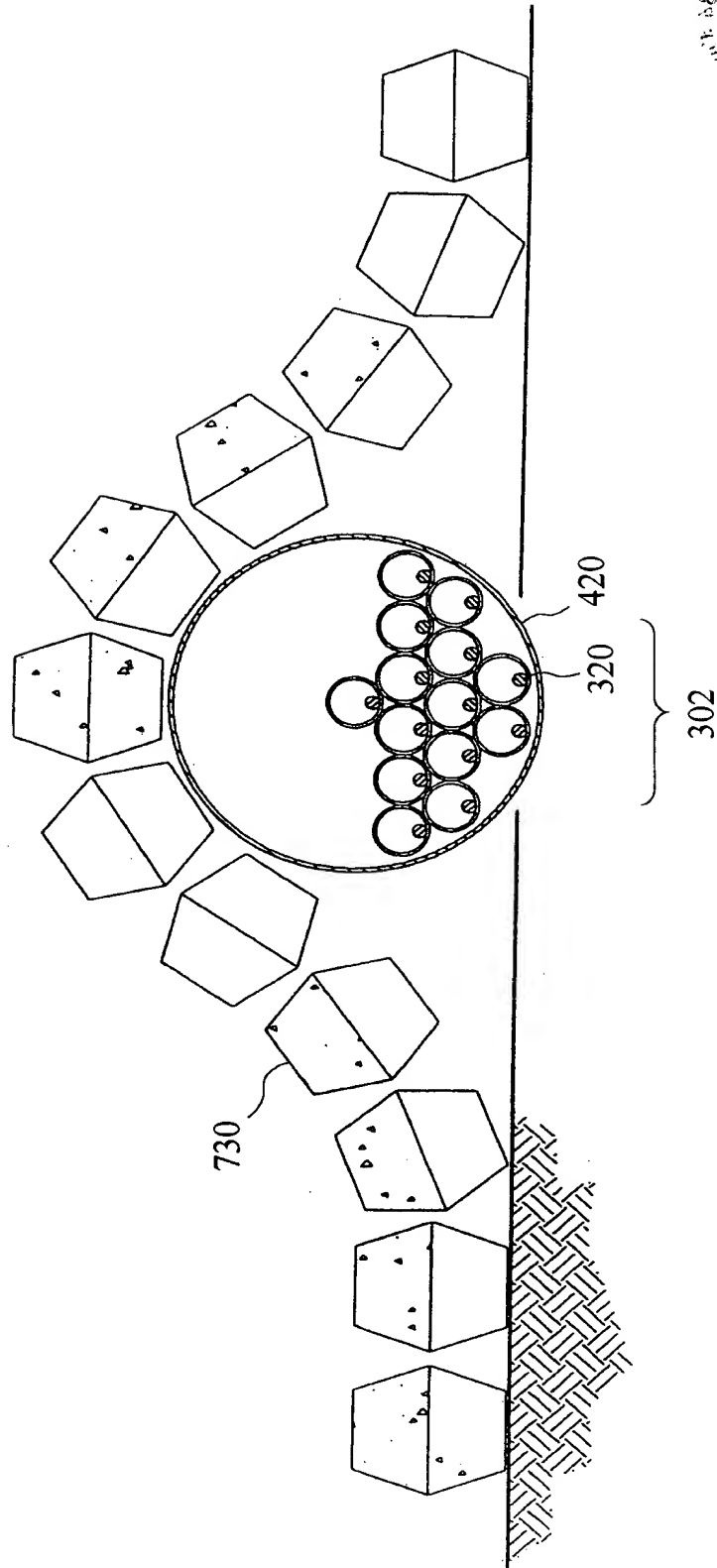
Fig. 13



Appl. No. 09/988,821; Filed: November 20, 2001
Dkt. No. 1757.0260001; Group Art Unit: 3662
Inventor(s): Vidal *et al.*; Tel: 202/371-2600
Title: Cable Installation

15/53

Fig. 14

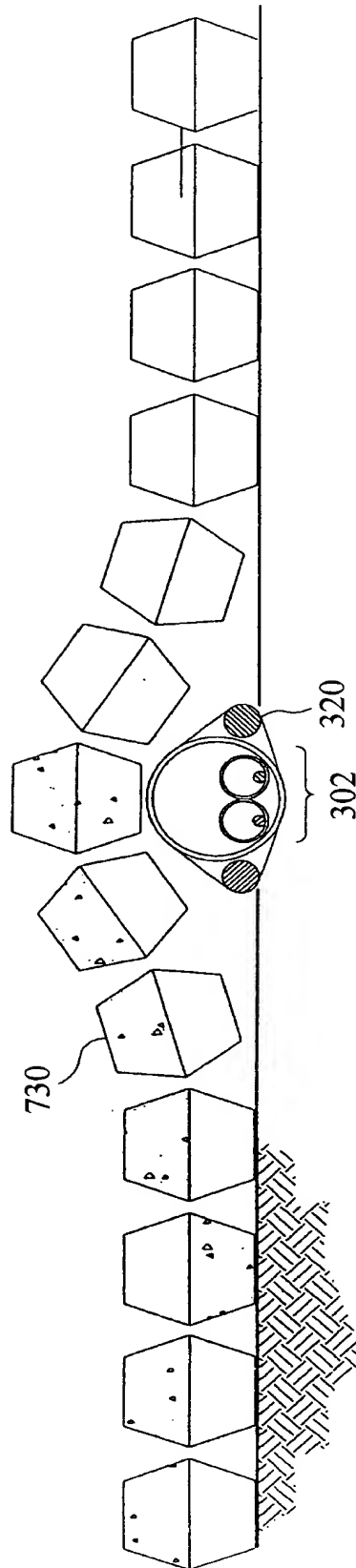


Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

16/53



Fig. 15



Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

17/53

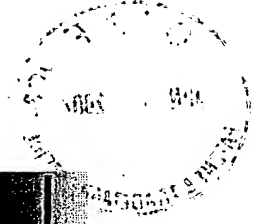
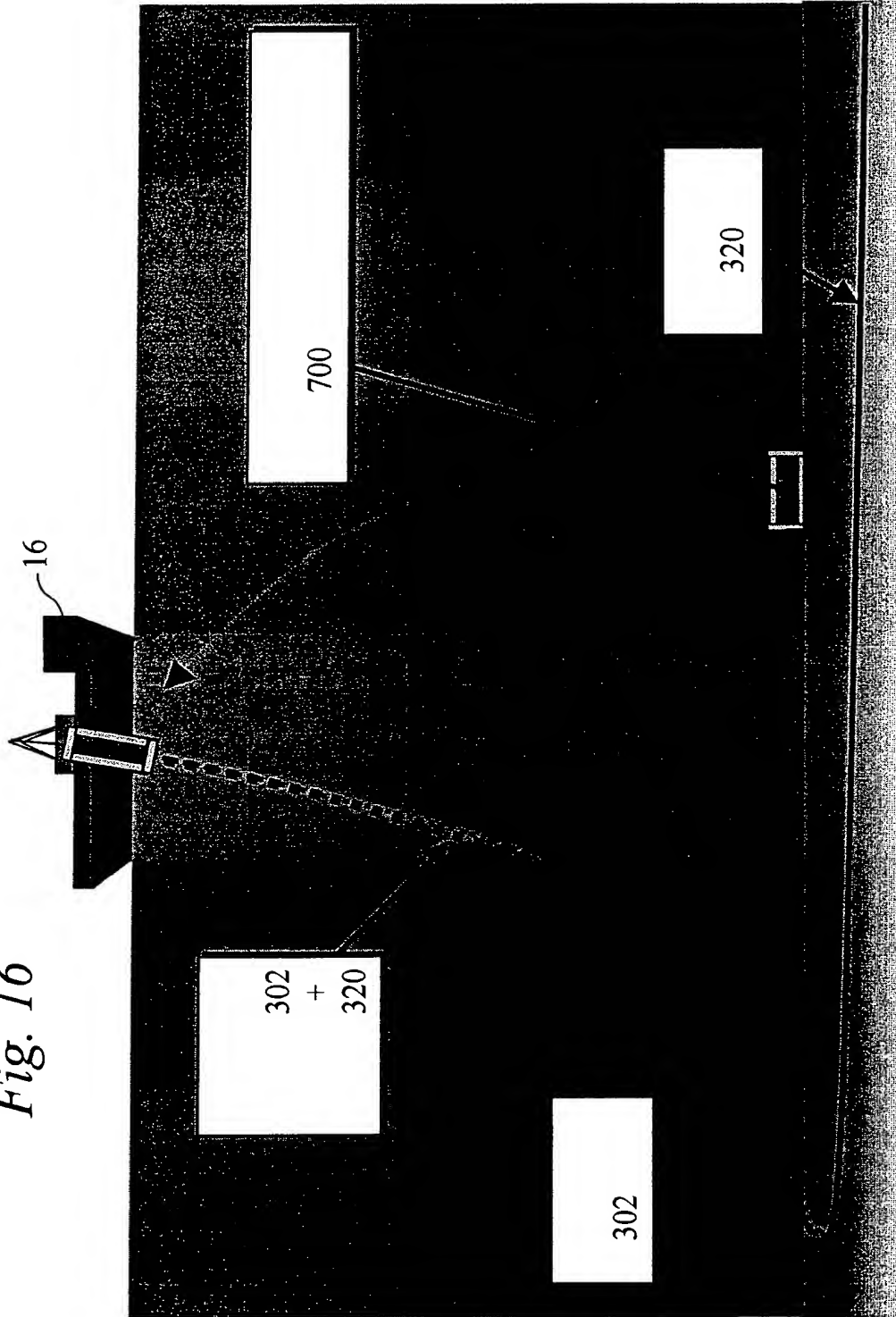


Fig. 16

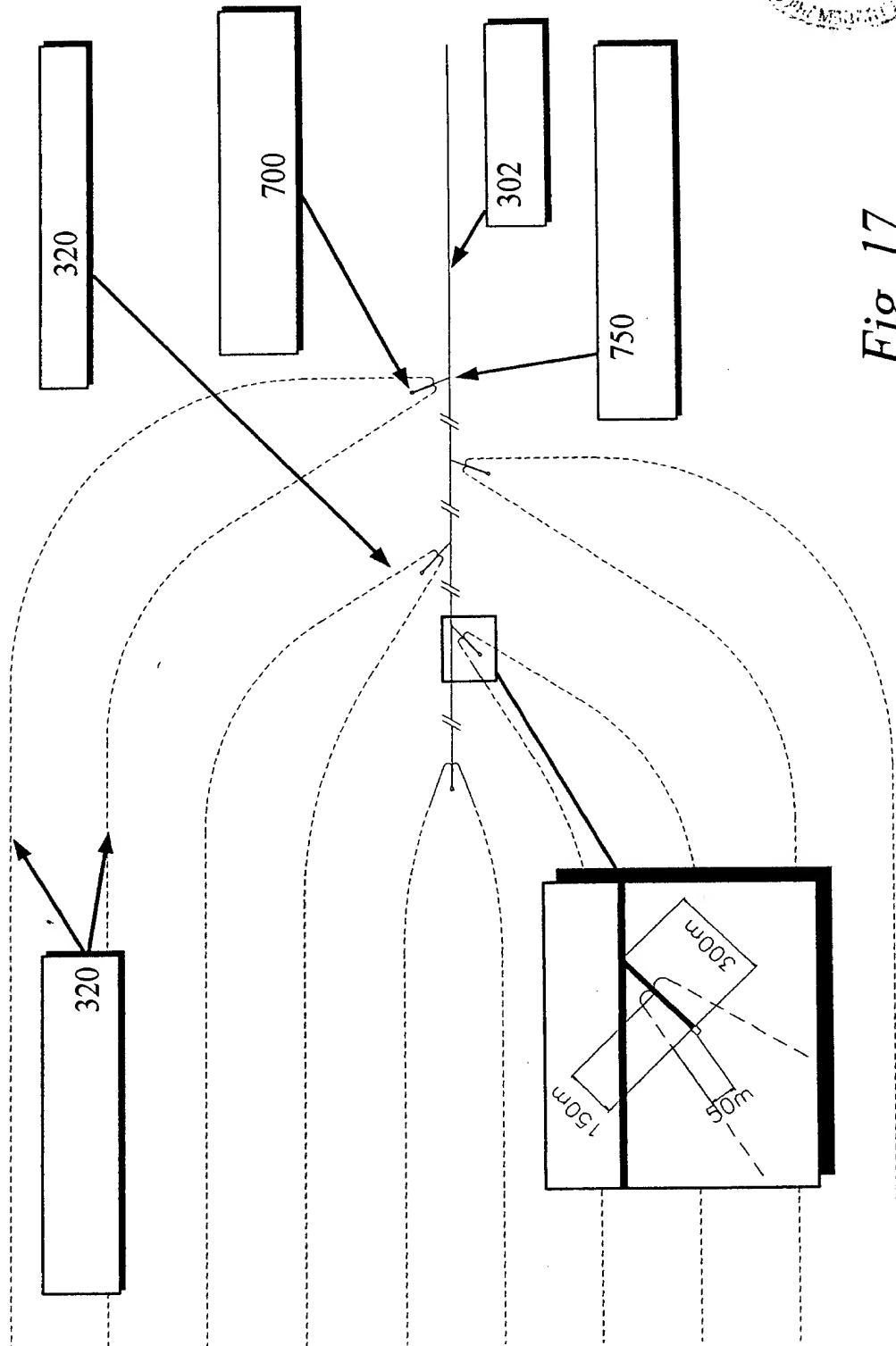


Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

18/53



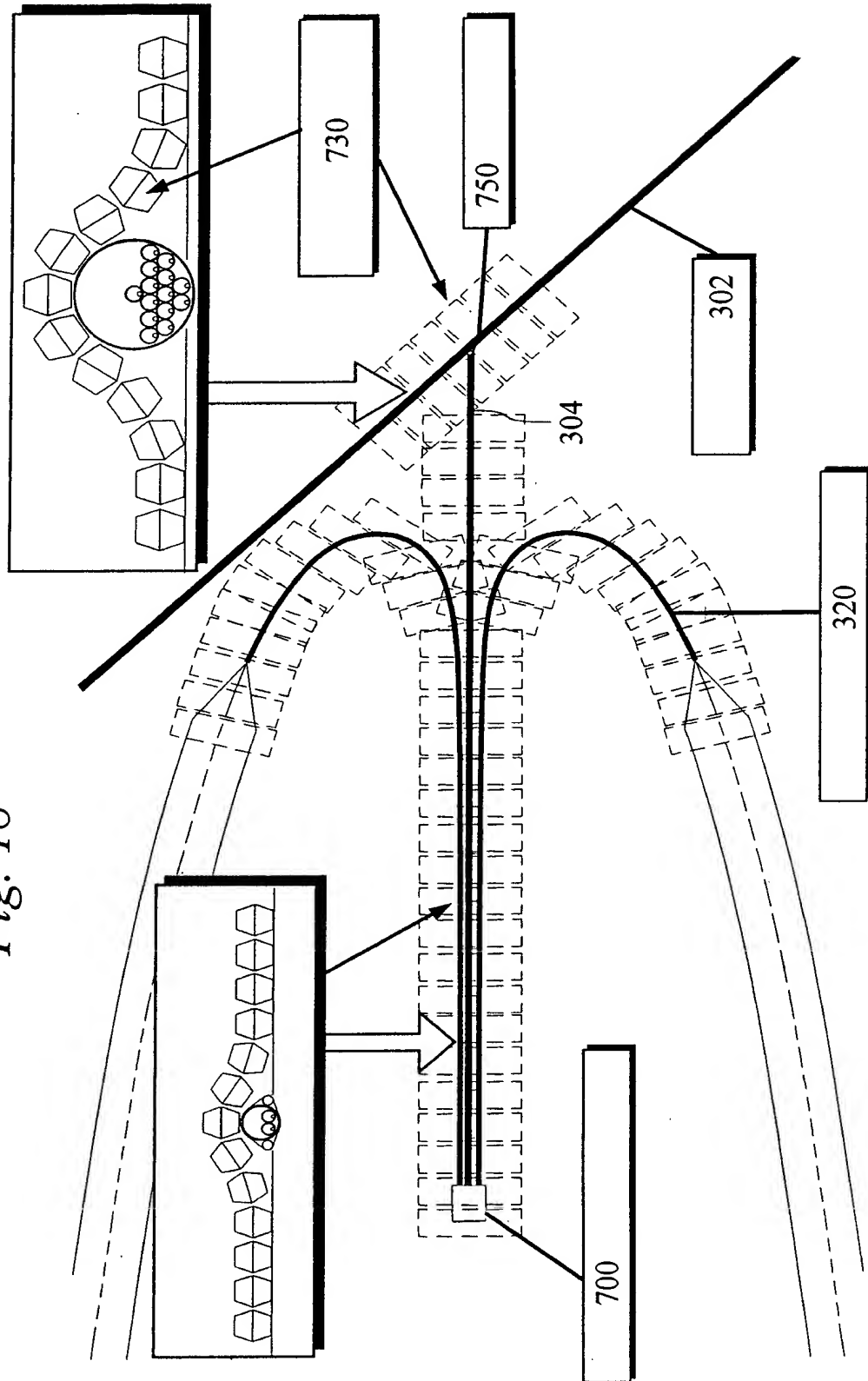
Fig. 17





19/53

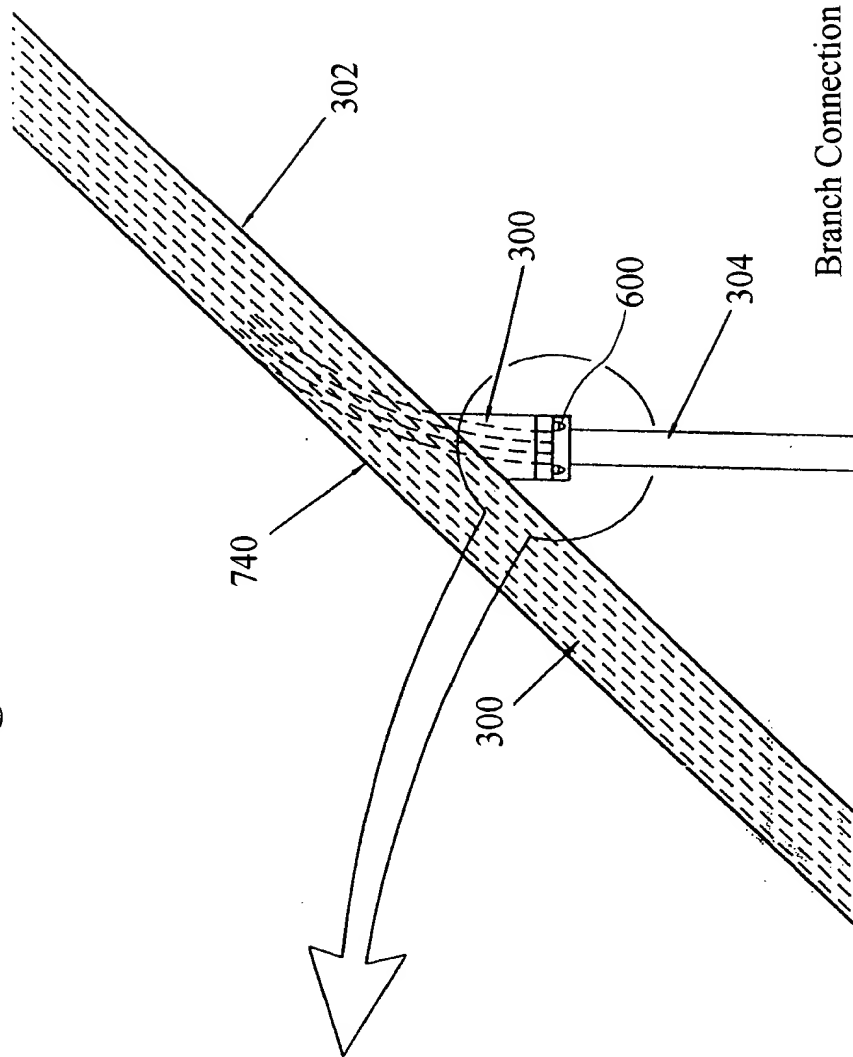
Fig. 18



20/53



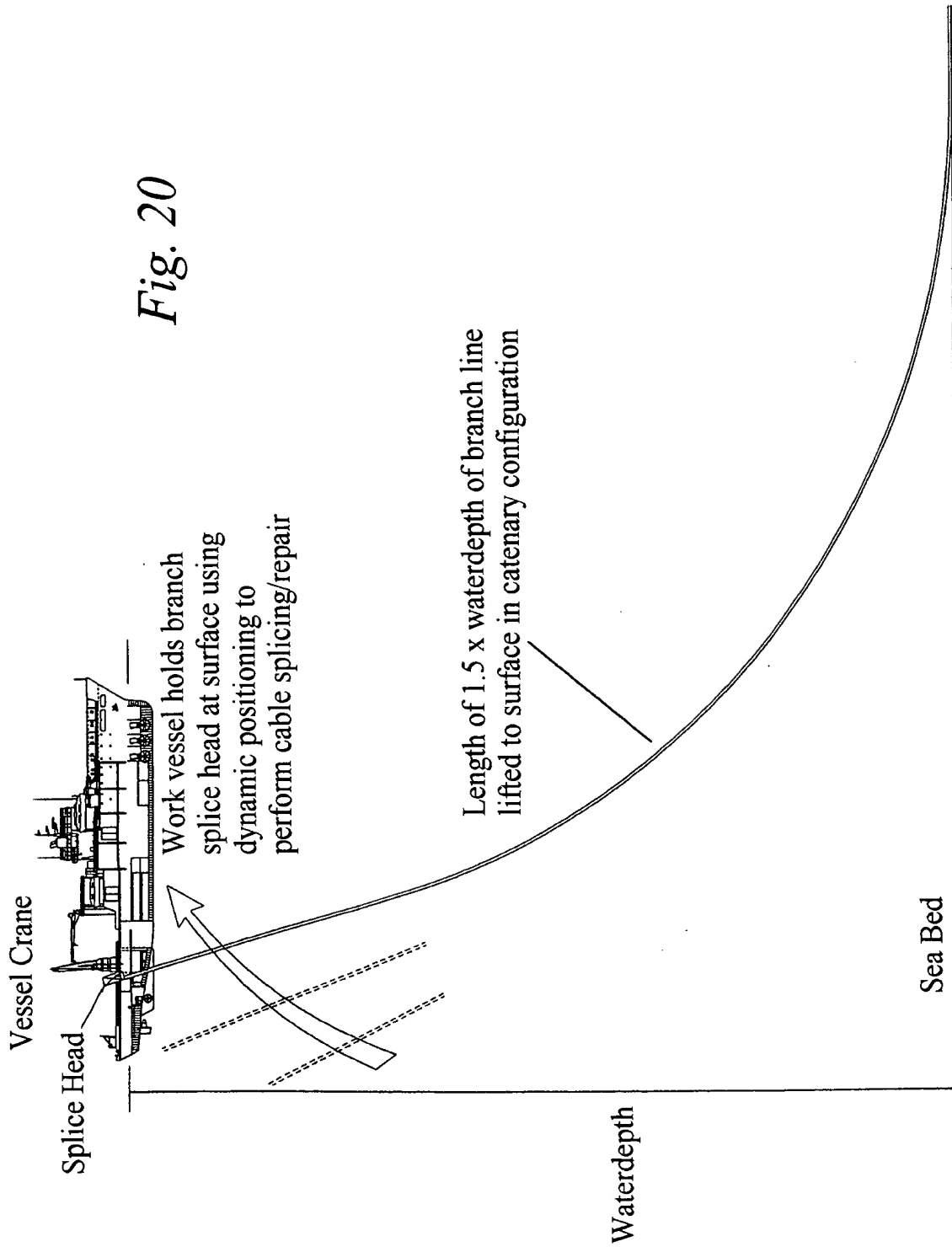
Fig. 19



21/53



Fig. 20

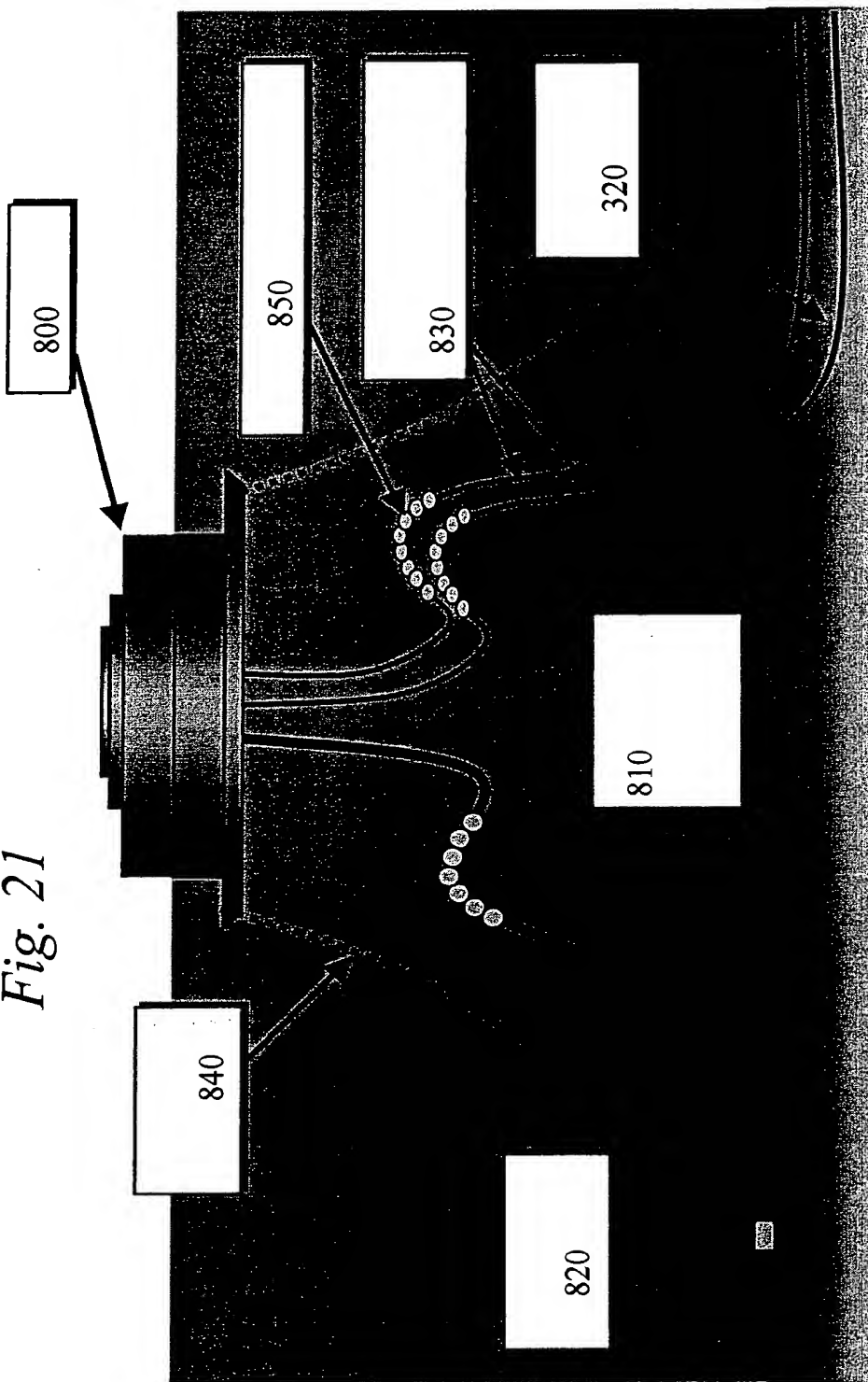


Appl. No. 09/988,821; Filed: November 20, 2001
 Int. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

22/53



Fig. 21

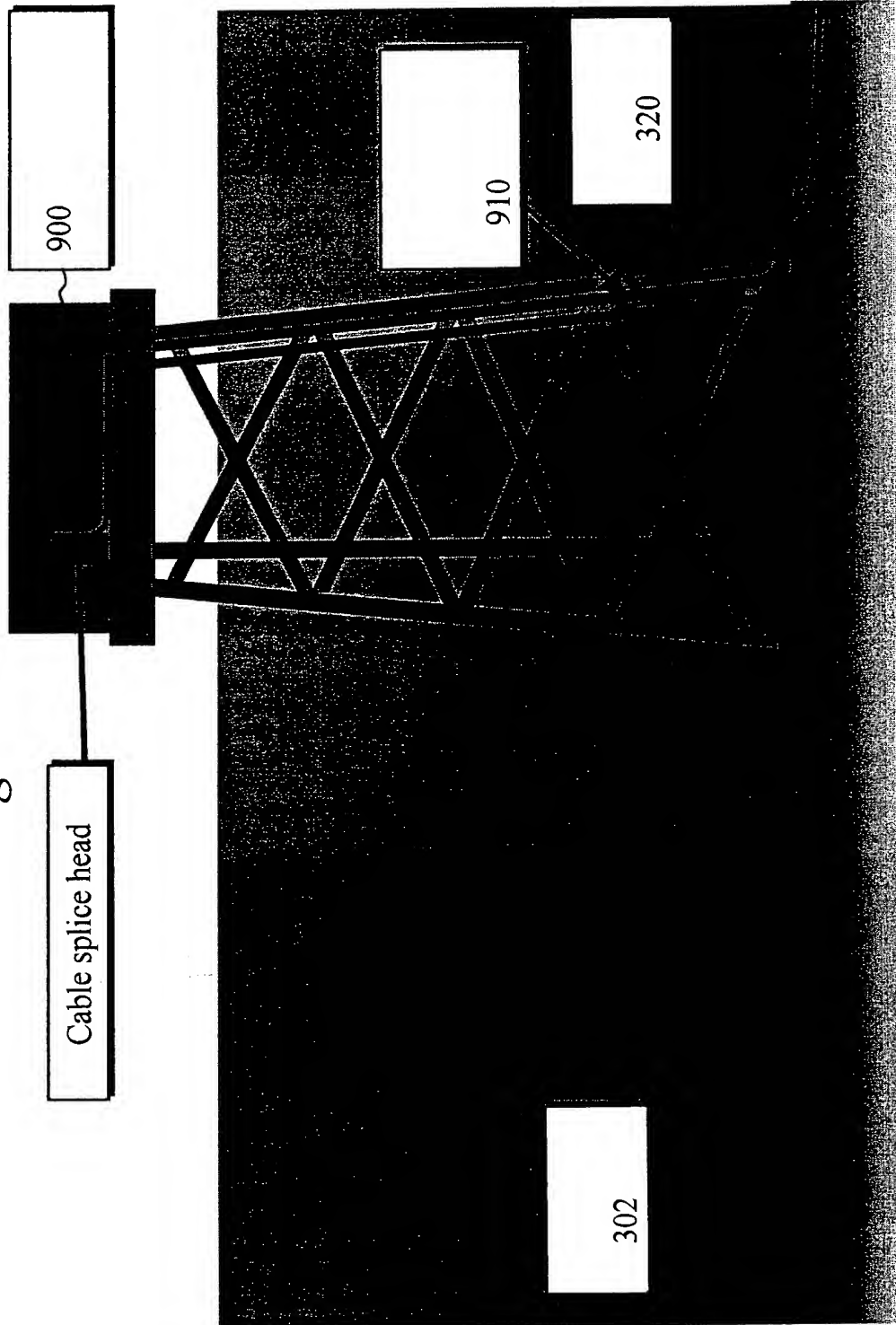


Appl. No. 09/988,821; Filed: November 20, 2001
 Pkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

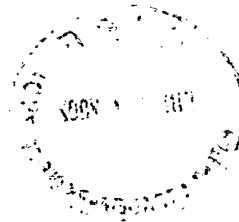
23/53



Fig. 22



Appl. No. 09/988,821; Filed: November 20, 2001
Dkt. No. 1757.0260001; Group Art Unit: 3662
Inventor(s): Vidal *et al.*; Tel: 202/371-2600
Title: Cable Installation



24/53

Internal duct

320

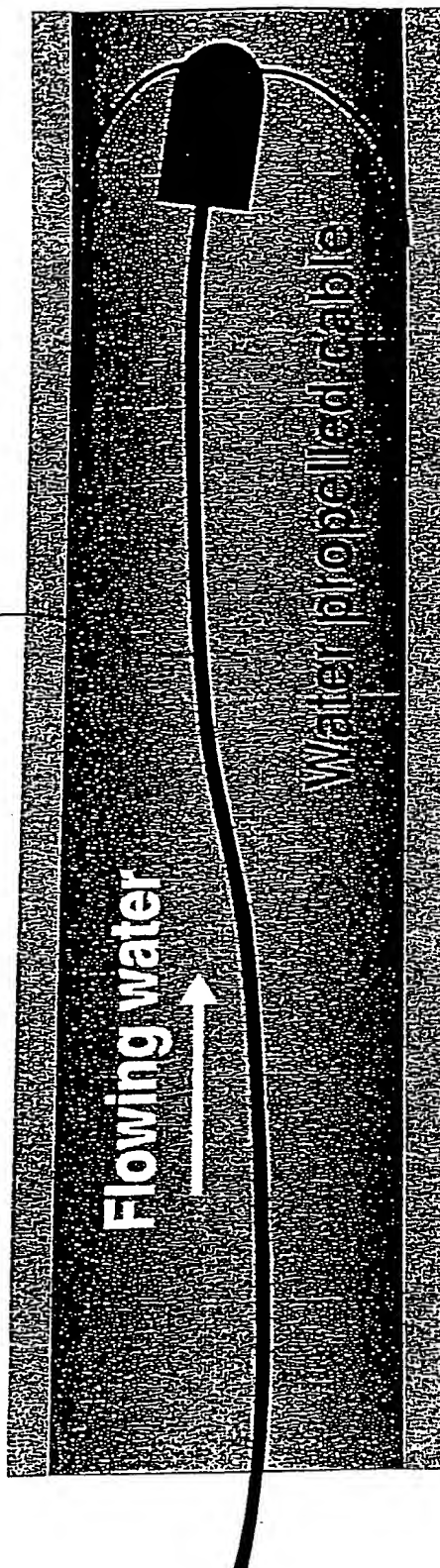


Fig. 23

25/53

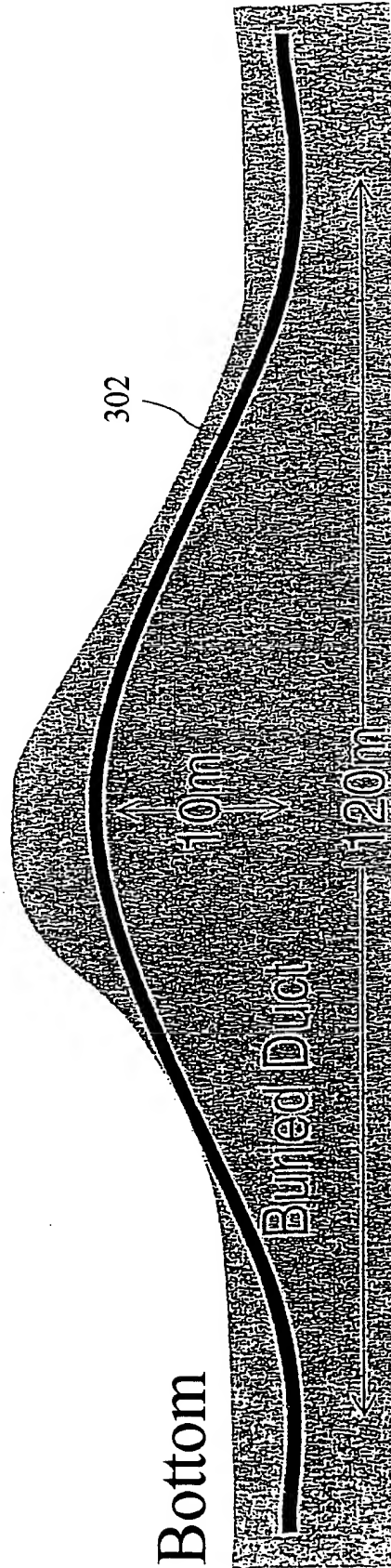
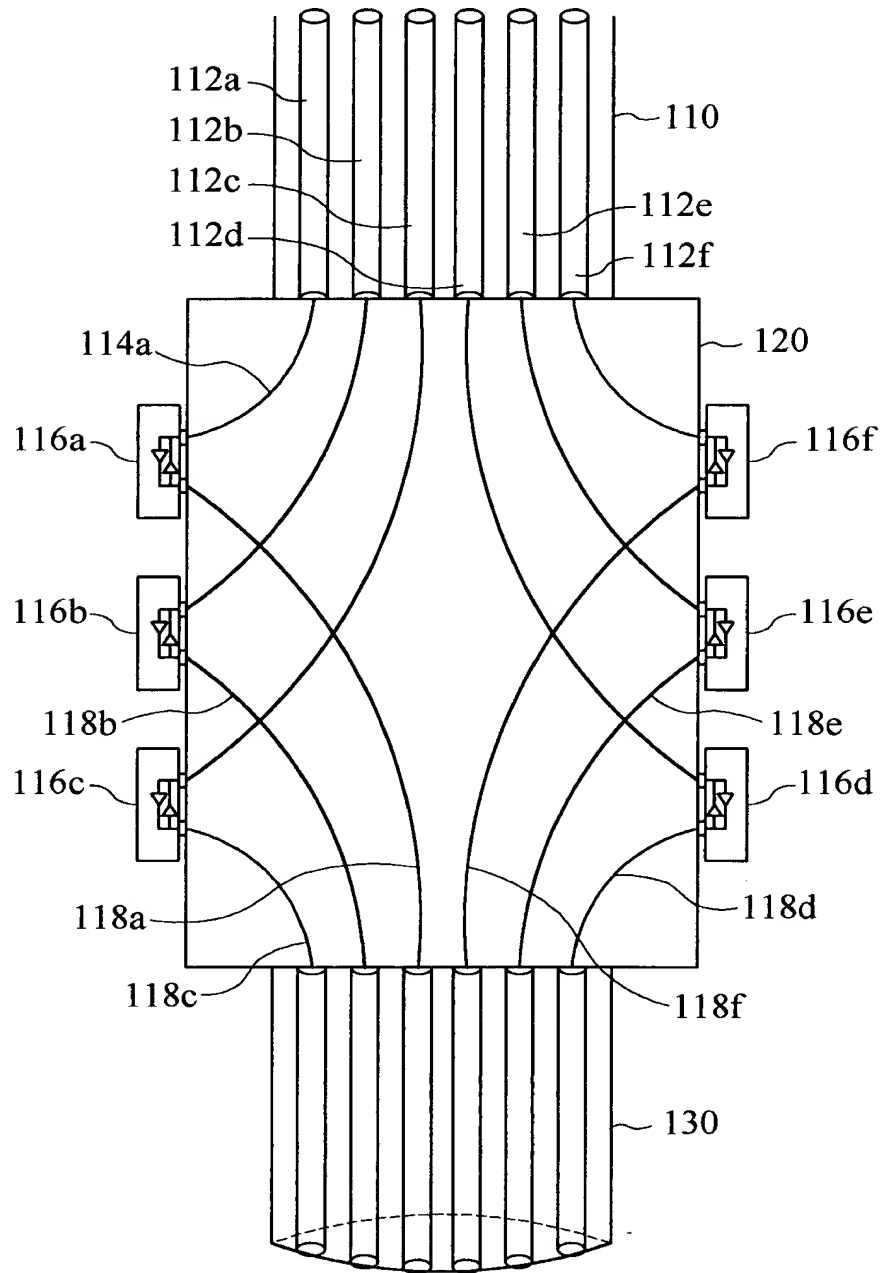


Fig. 24

26/53

Fig. 25





27/53

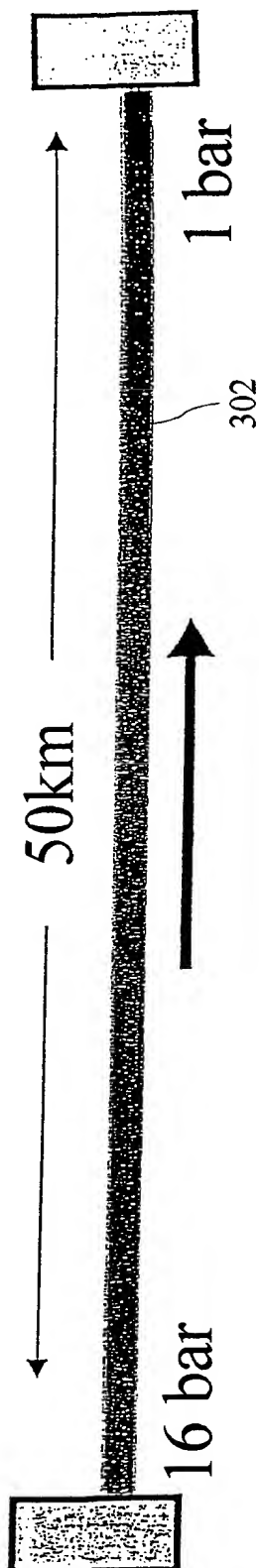
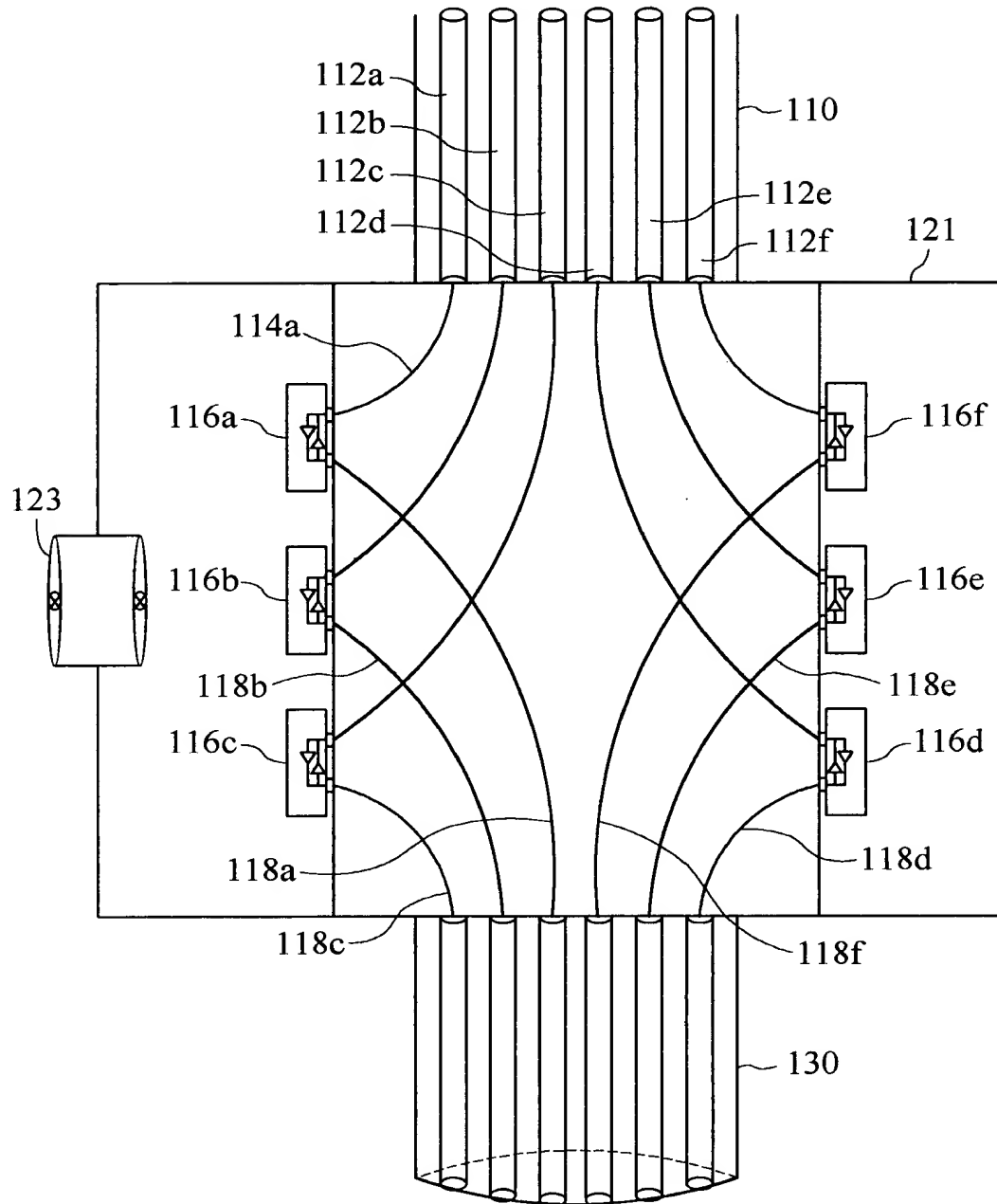


Fig. 26

28/53

Fig. 27



Appl. No. 09/988,821; Filed: November 20, 2001
 Int. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

29/53

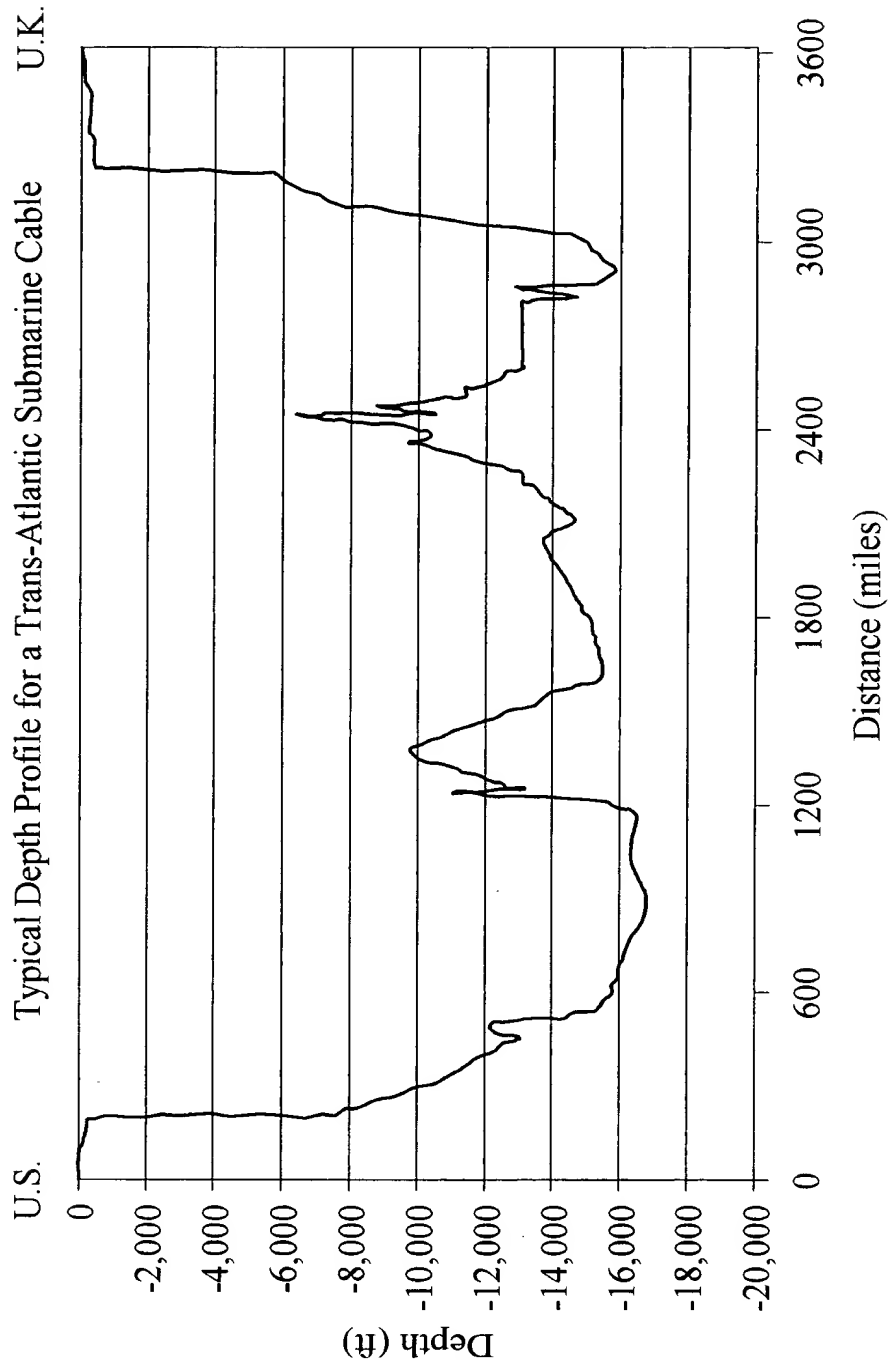


Fig. 28

Appl. No. 09/988,821; Filed: November 20, 2001
 Pkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

30/53

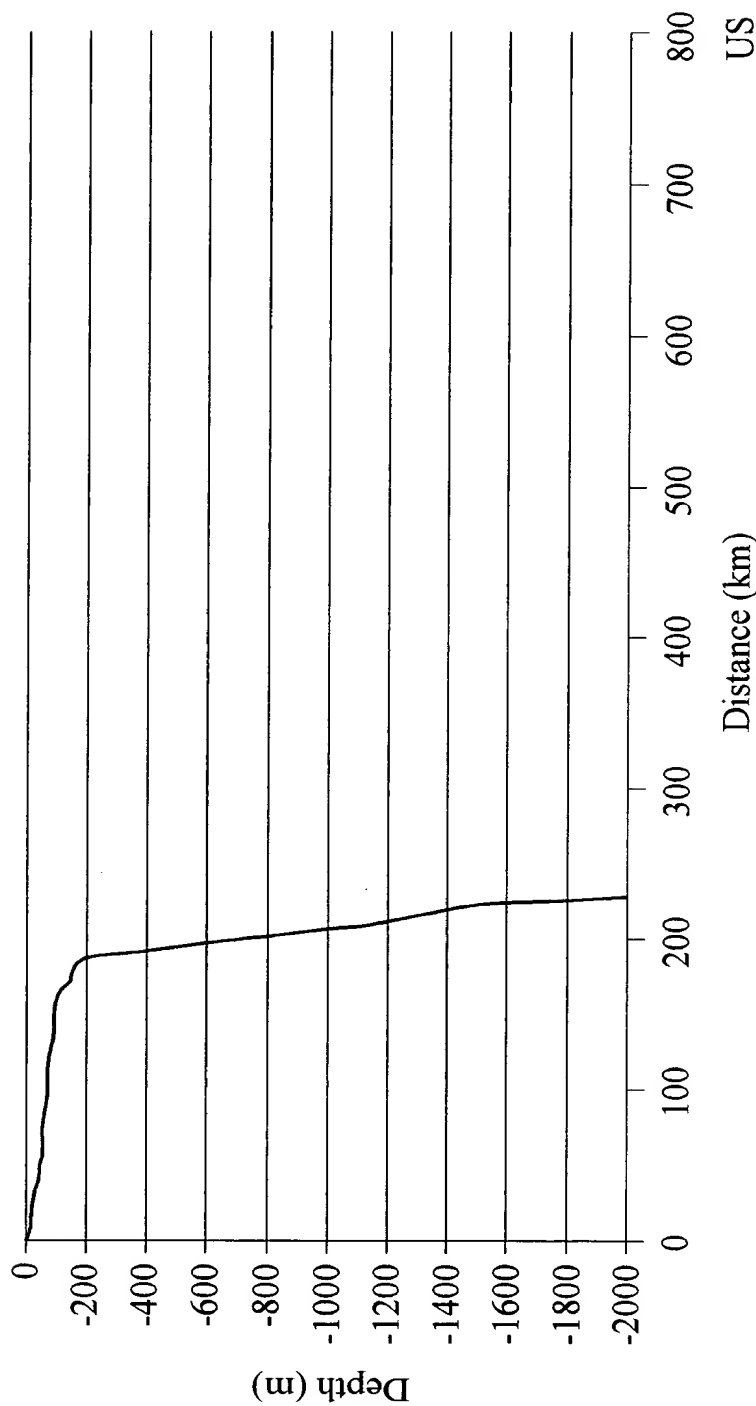
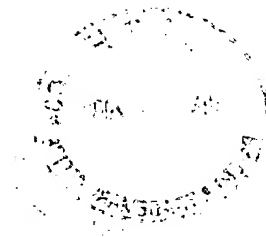


Fig. 29

Appl. No. 09/988,821; Filed: November 20, 2001
 Int. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation



31/53

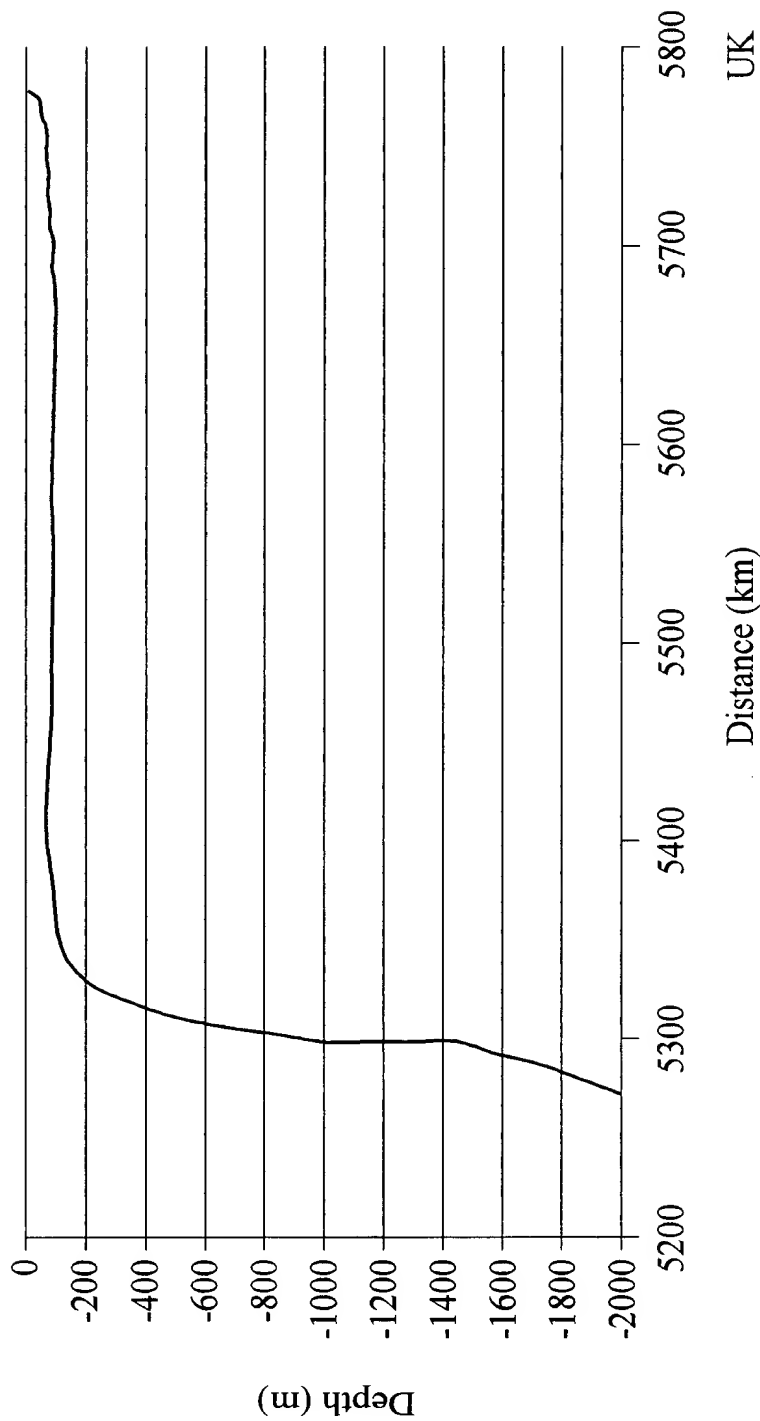


Fig. 30

32/53

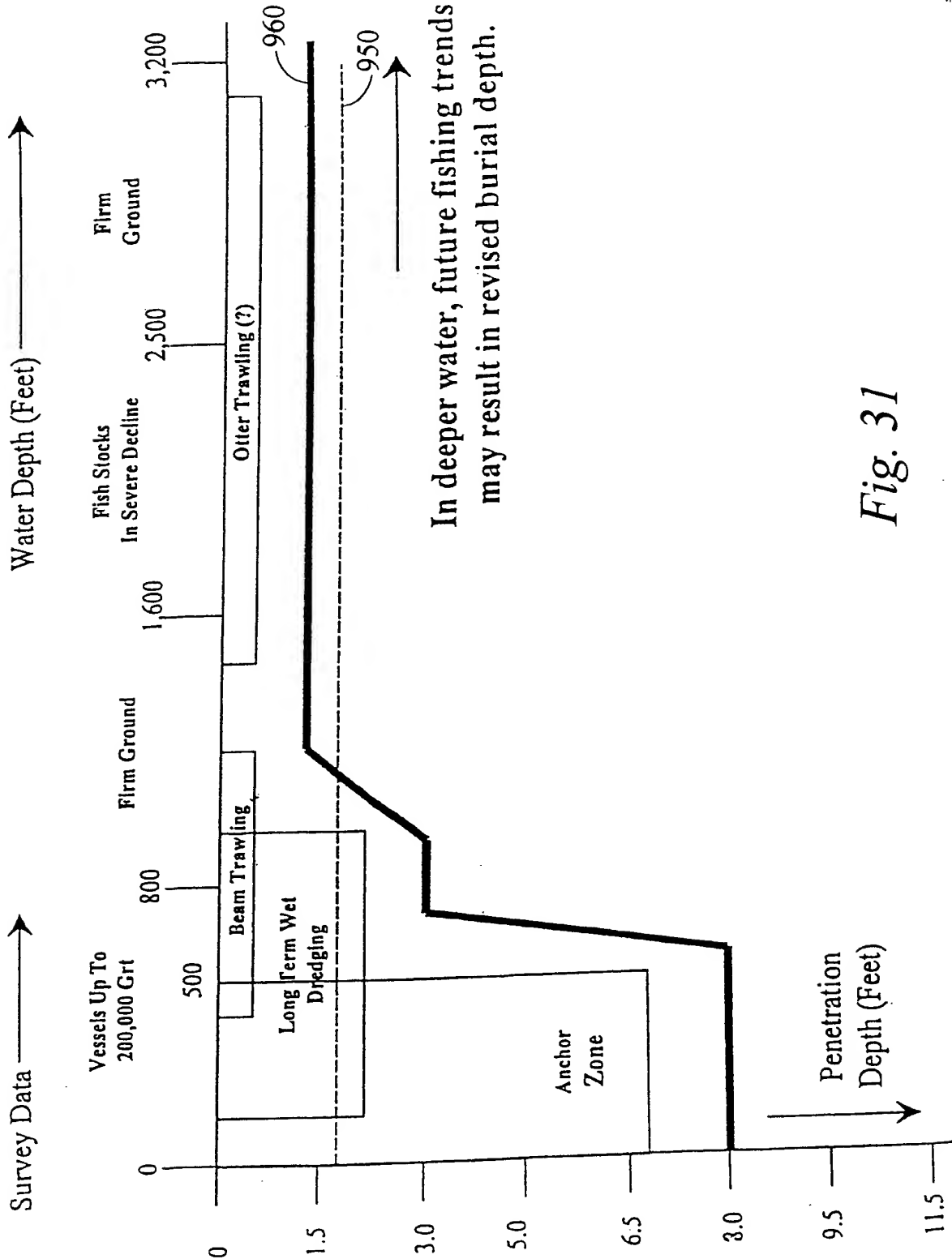


Fig. 31

33/53

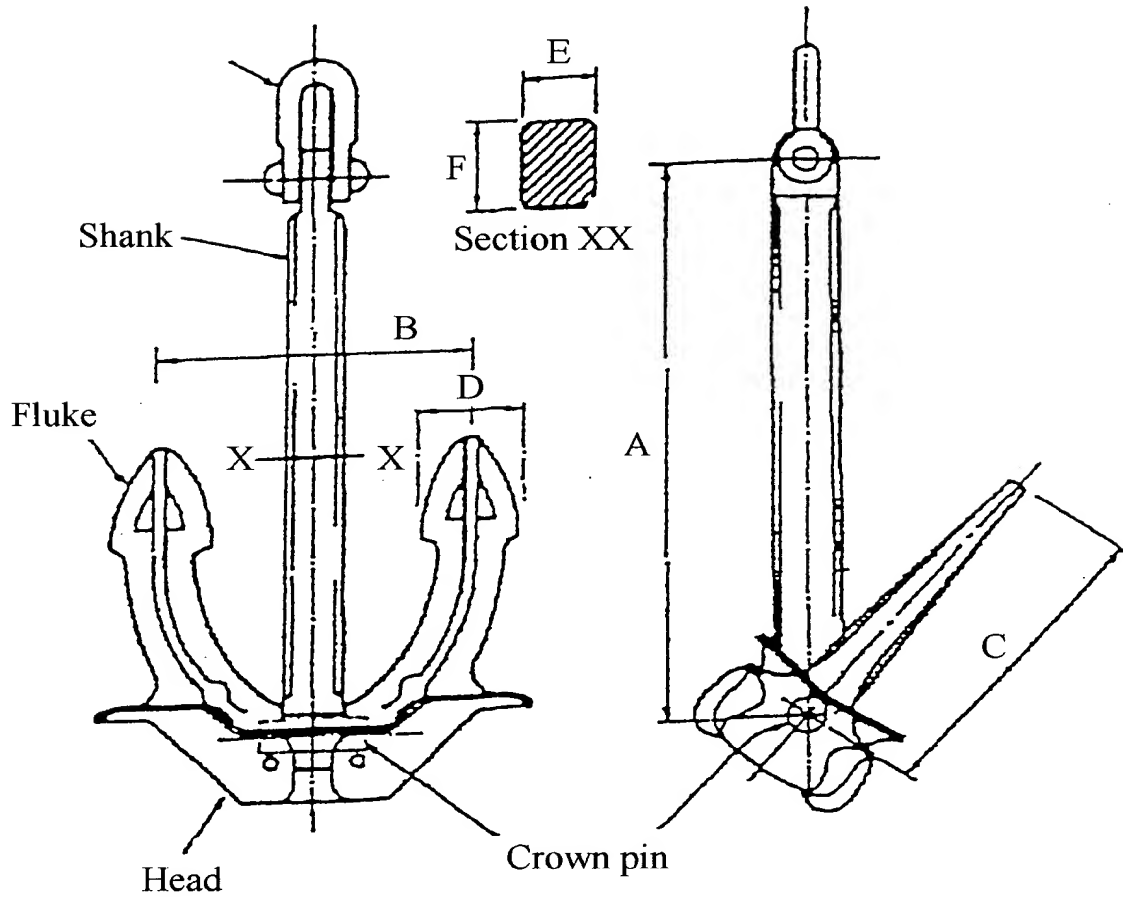


Fig. 32

Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

34/53

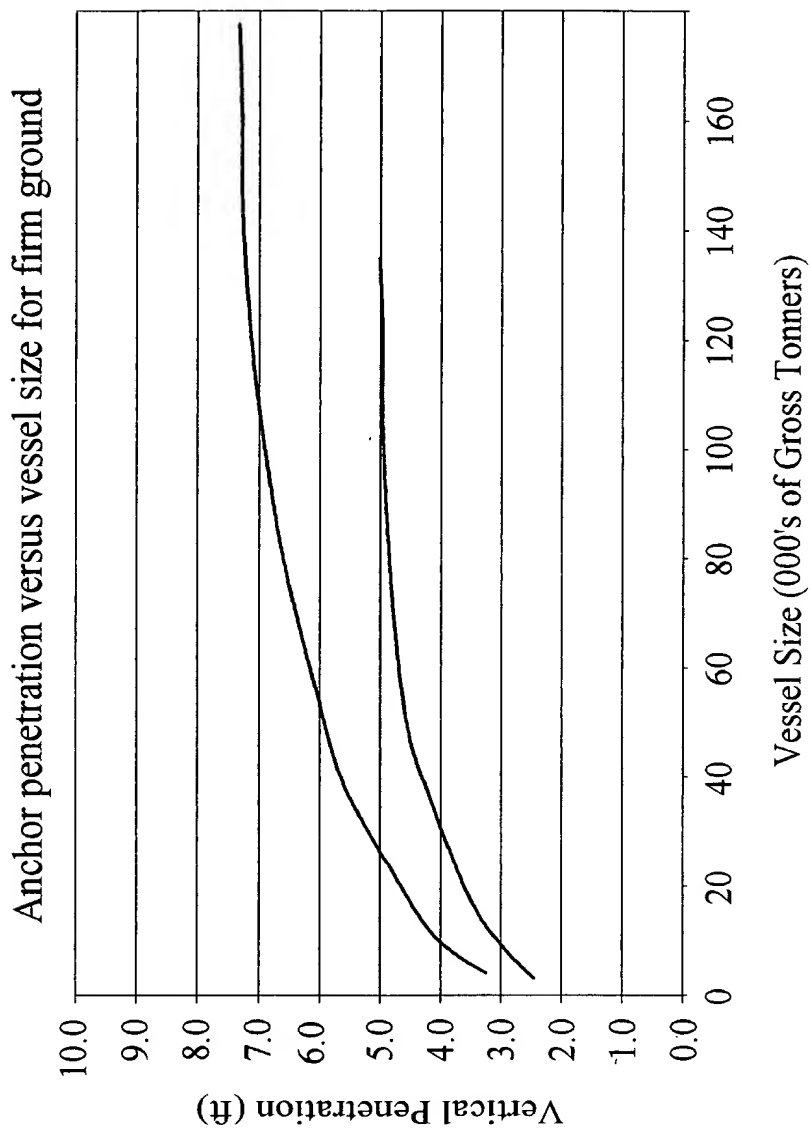


Fig. 33

35/53

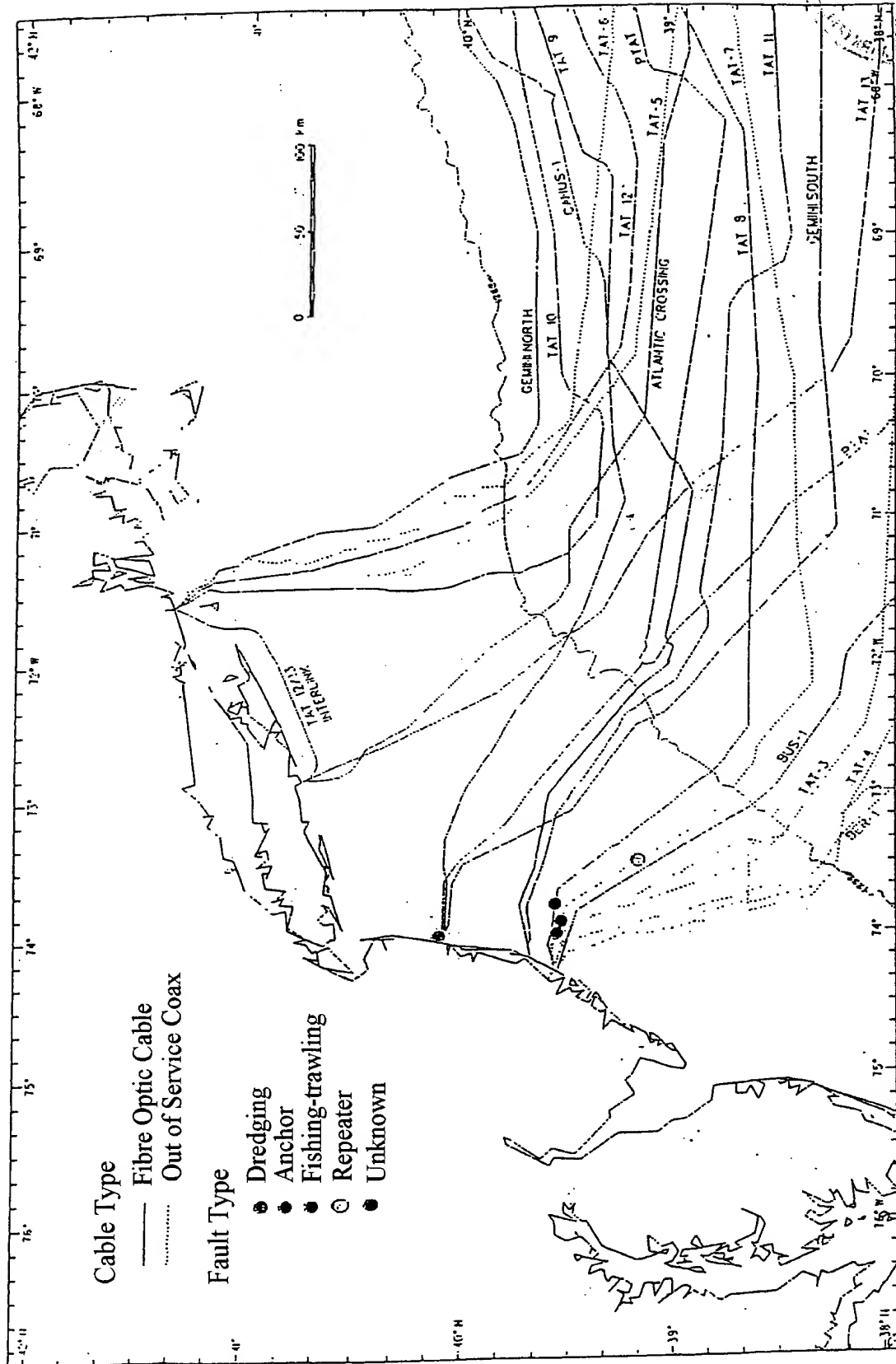


Fig. 34

Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

36/53



System Name	Pre-Repair Burial Status	Date of Fault	Seabed Type	Type of Fault	Water		Type of Armour	Repair Ship
					Depth			
CANUS 1	Surface Laid	1-Mar-98	Sand	Dredging	65 ft		Double Armor	Sir Eric Sharp
TAT 7	Surface Laid	18-Apr-86	Sand	Anchor	90 ft		Unknown	Mercury
TAT 7	Surface Laid	10-Aug-89	Sand	Fishing	175 ft		Lightweight	C.S. Alert
TAT 7	Unknown	9-Aug-93	Unknown	Repeater	160 ft		Unknown	Global Mariner
TAT 8	Postlay Buried	10-Aug-93	Unknown	Unknown	90 ft		LWP	Global Marine

Fig. 35

37/53

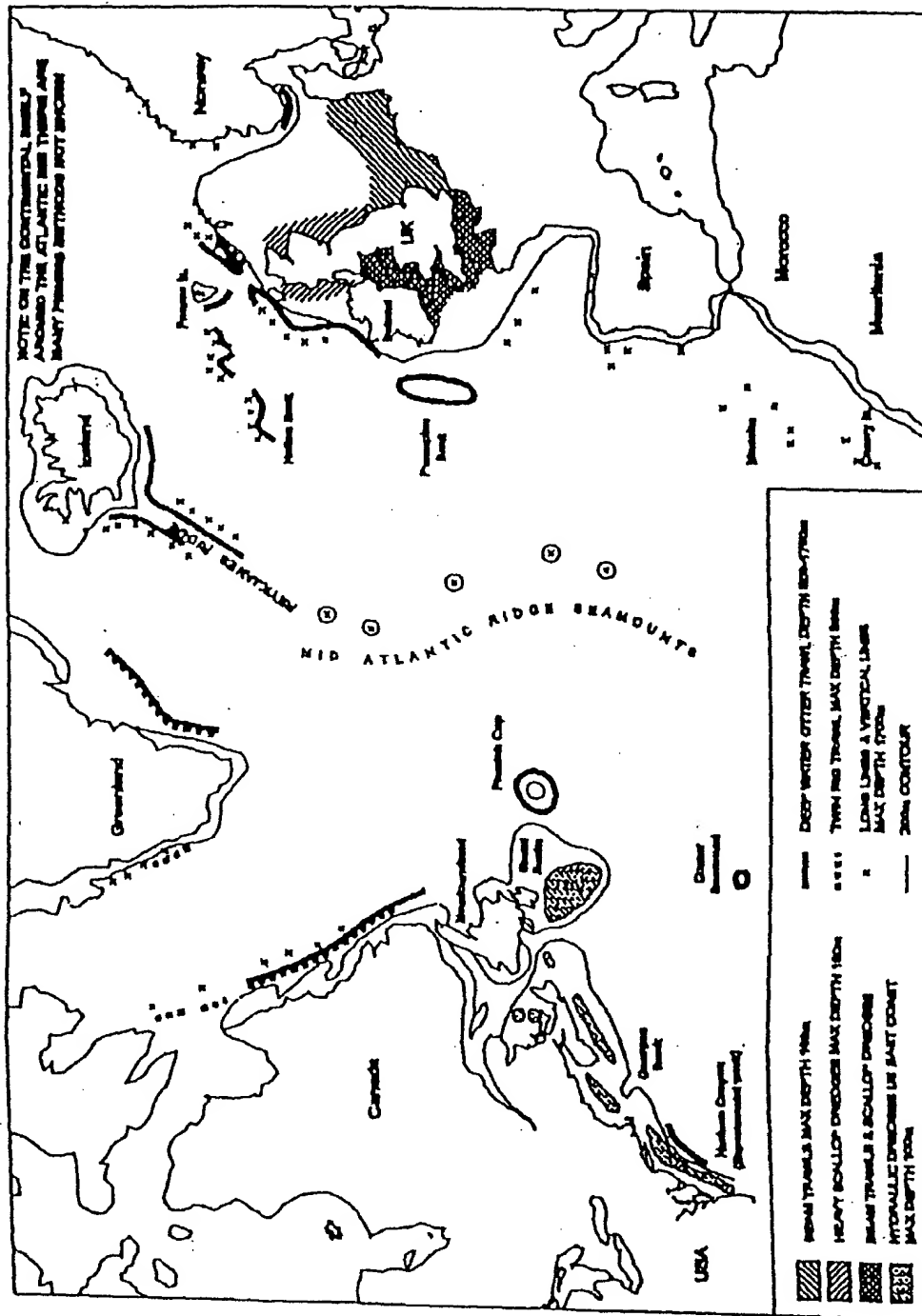
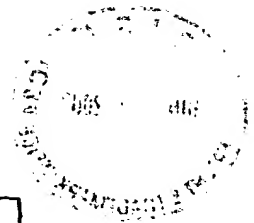


Fig. 36

38/53

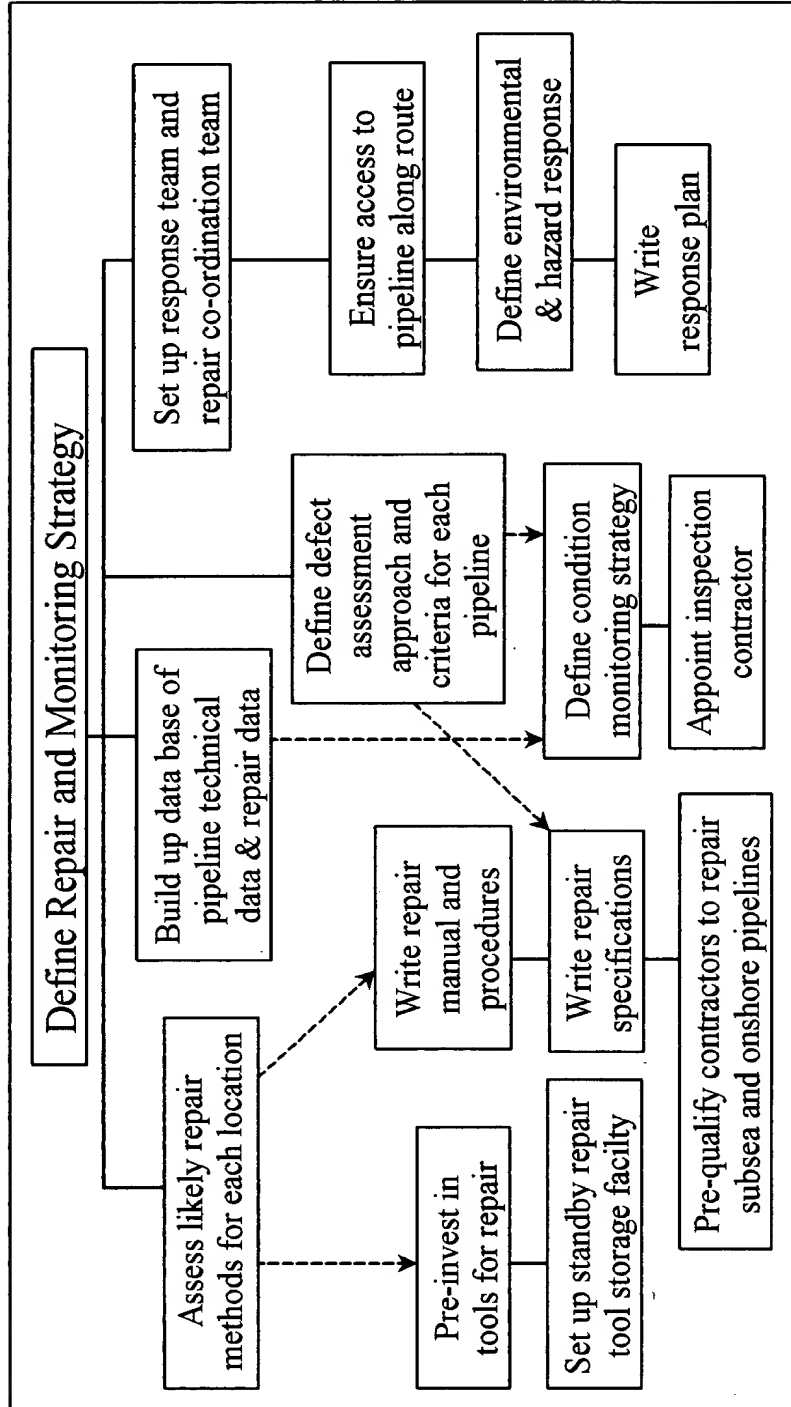


Fig. 37

39/53

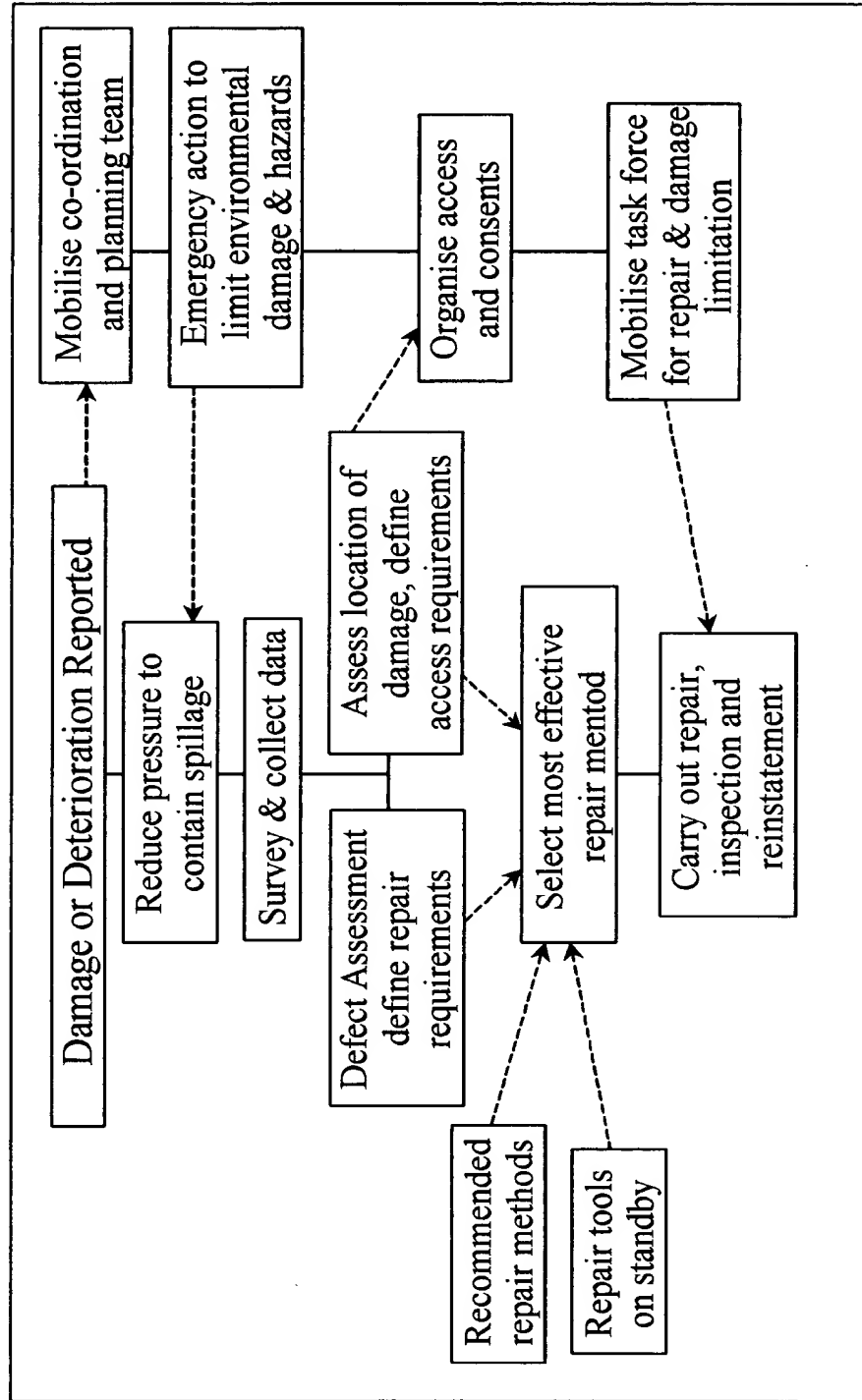
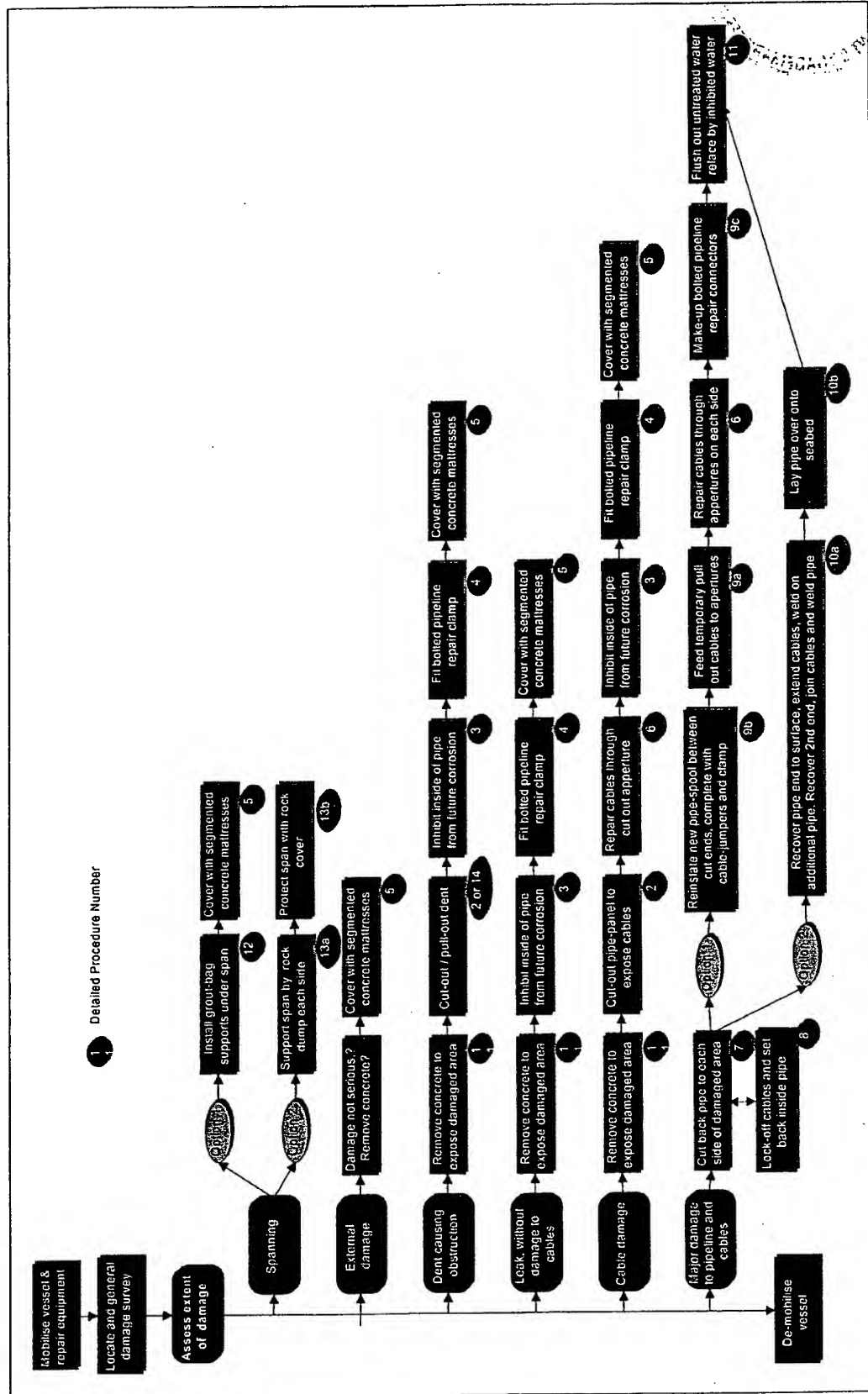


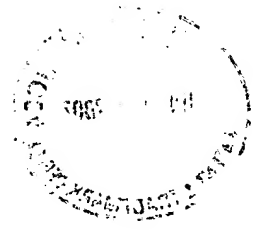
Fig. 38

40/53

Fig. 39



Appl. No. 09/988,821; Filed: November 20, 2001
Dkt. No. 1757.0260001; Group Art Unit: 3662
Inventor(s): Vidal *et al.*; Tel: 202/371-2600
Title: Cable Installation



41/53

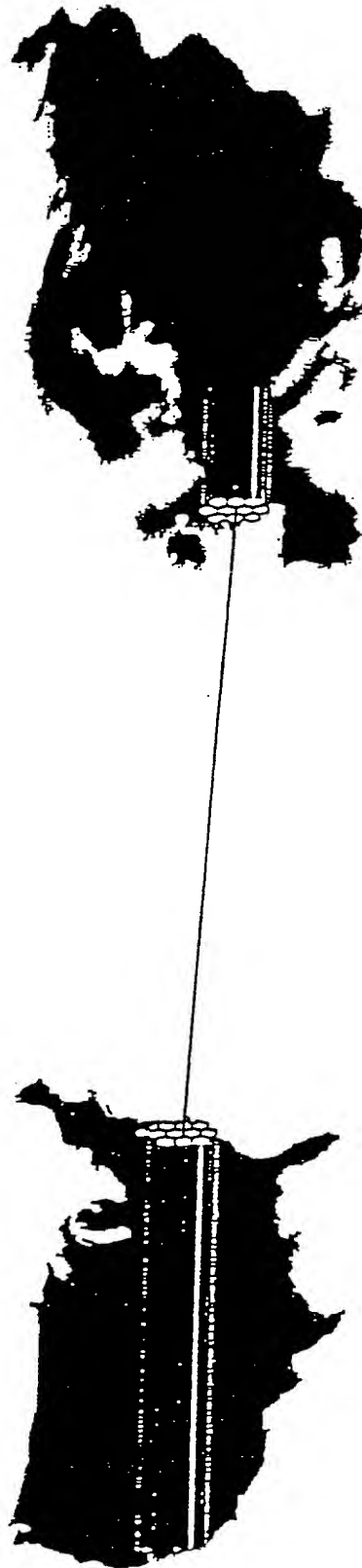


Fig. 40

Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

42/53

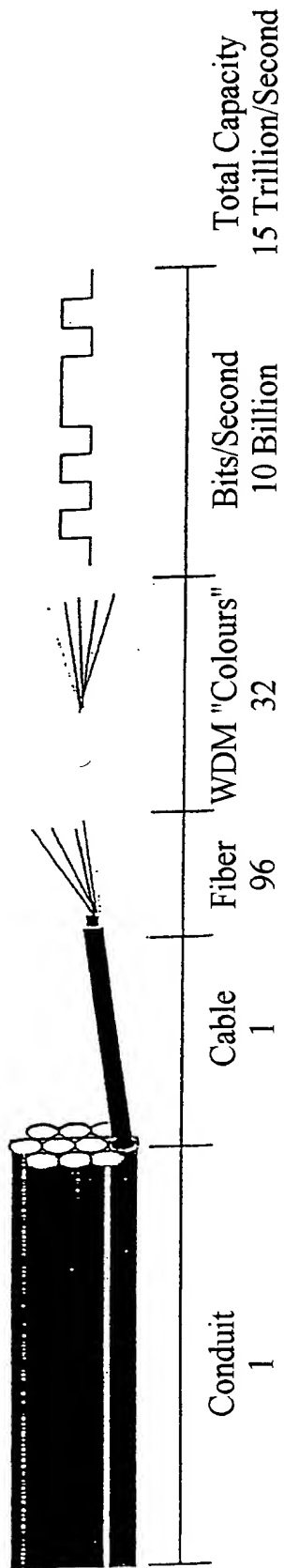


Fig. 41



43/53

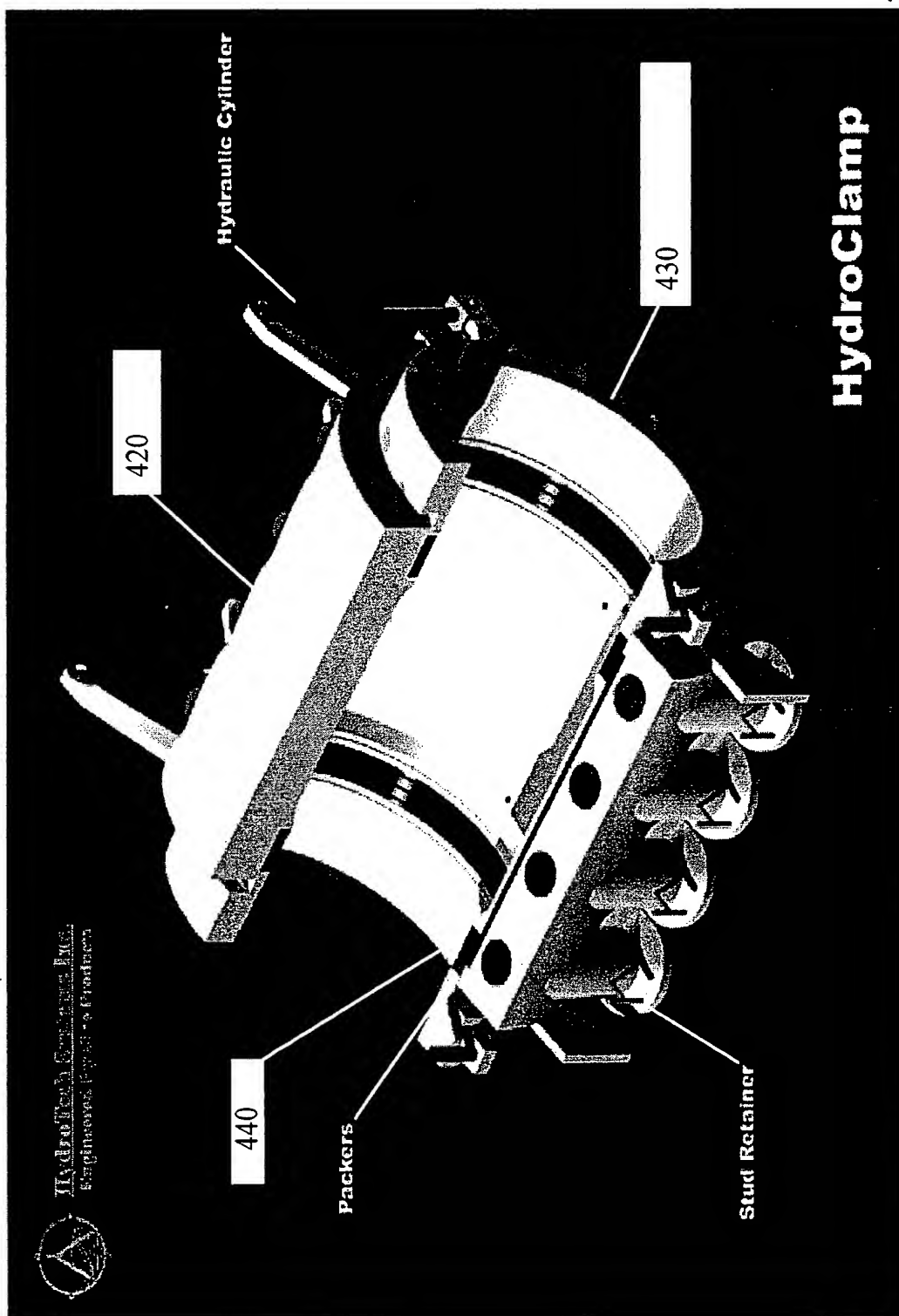


Fig. 42

Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

44/53

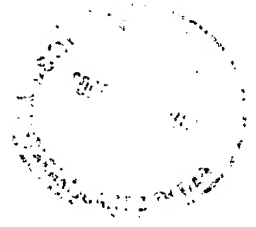
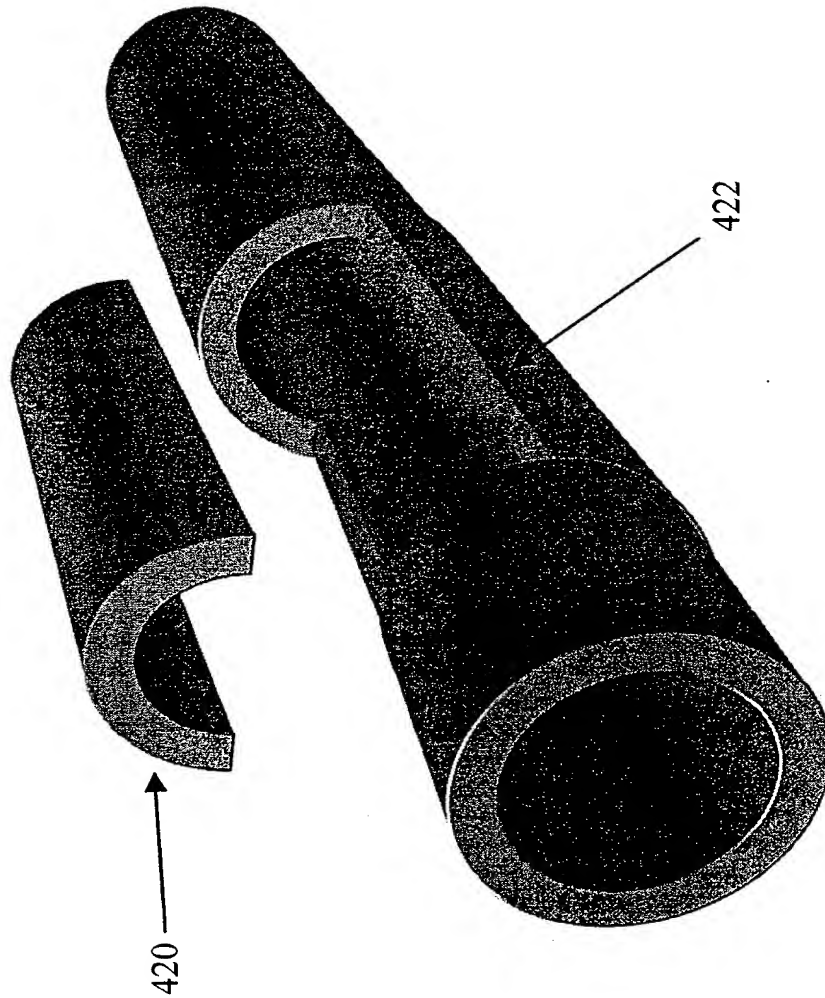


Fig. 43



Appl. No. 09/988,821; Filed: November 20, 2001
 Int. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

45/53

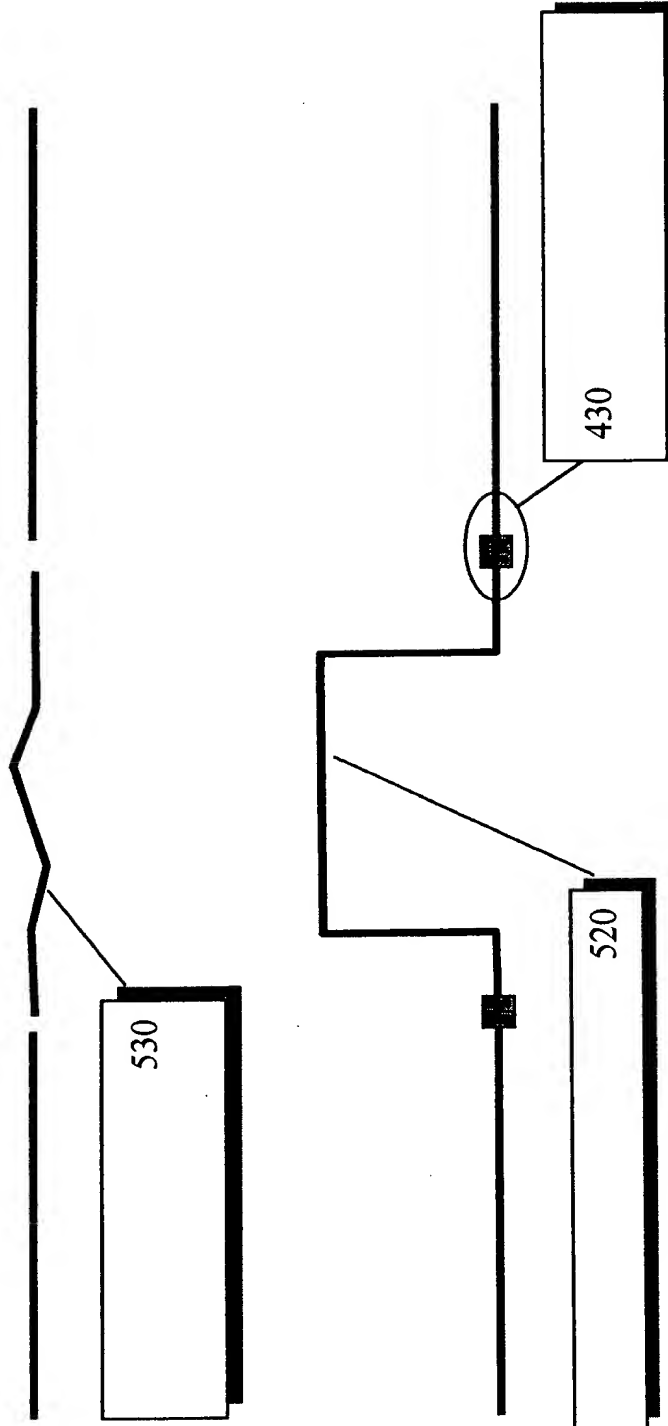
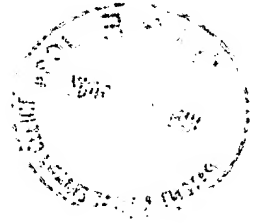
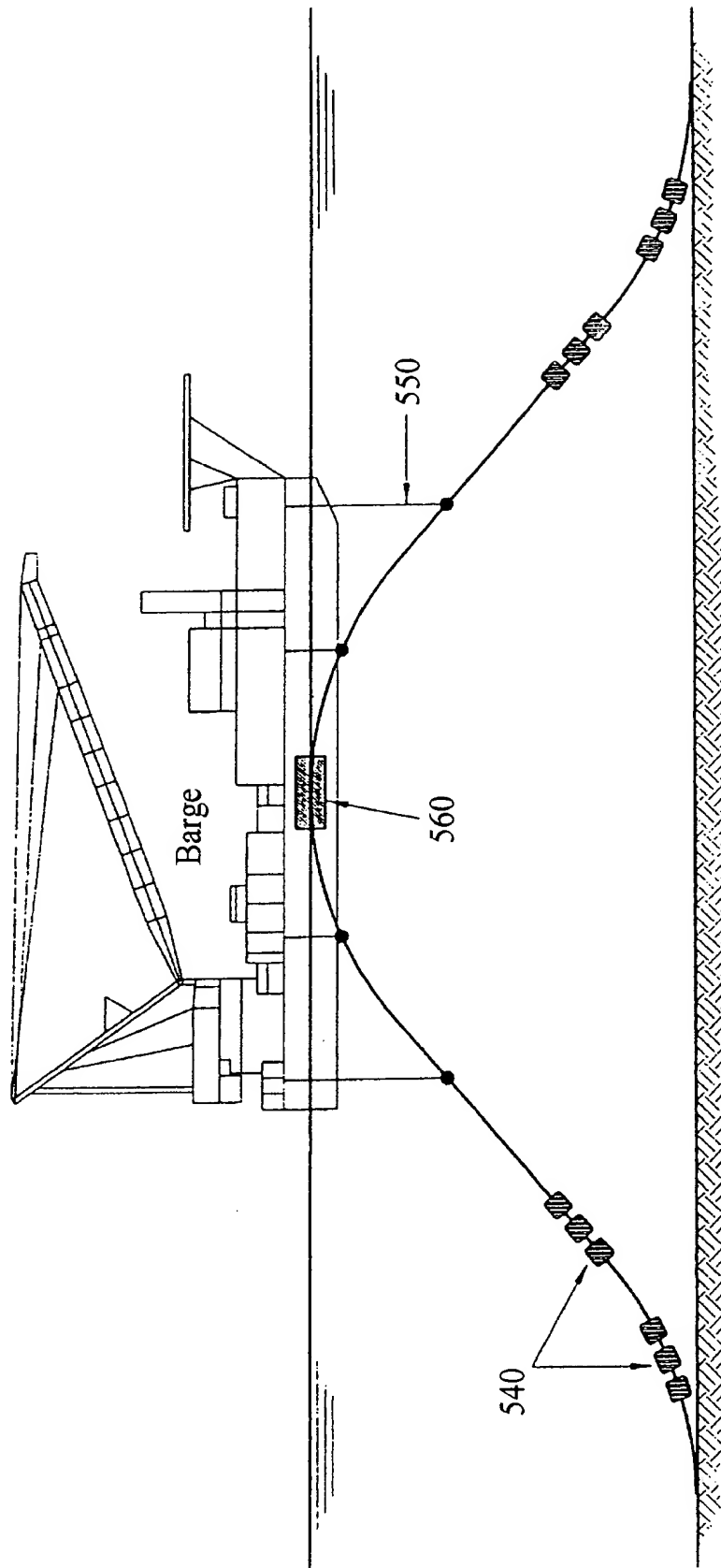


Fig. 44

Appl. No. 09/988,821; Filed: November 20, 2001
 Int. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

46/53

Fig. 45



Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

47/53

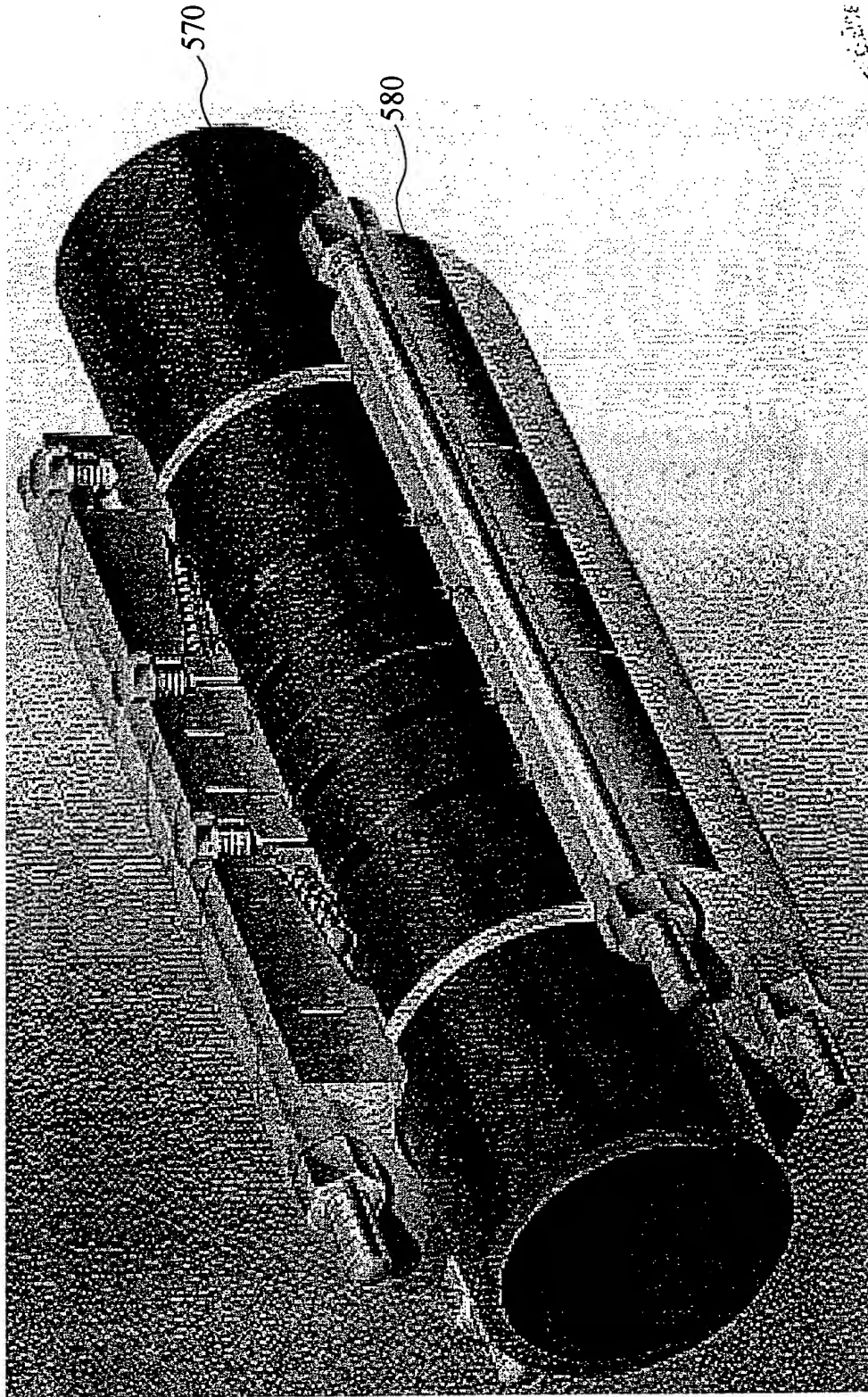


Fig. 46

Appl. No. 09/988,821; Filed: November 20, 2001
Dkt. No. 1757.0260001; Group Art Unit: 3662
Inventor(s): Vidal *et al.*; Tel: 202/371-2600
Title: Cable Installation

48/53

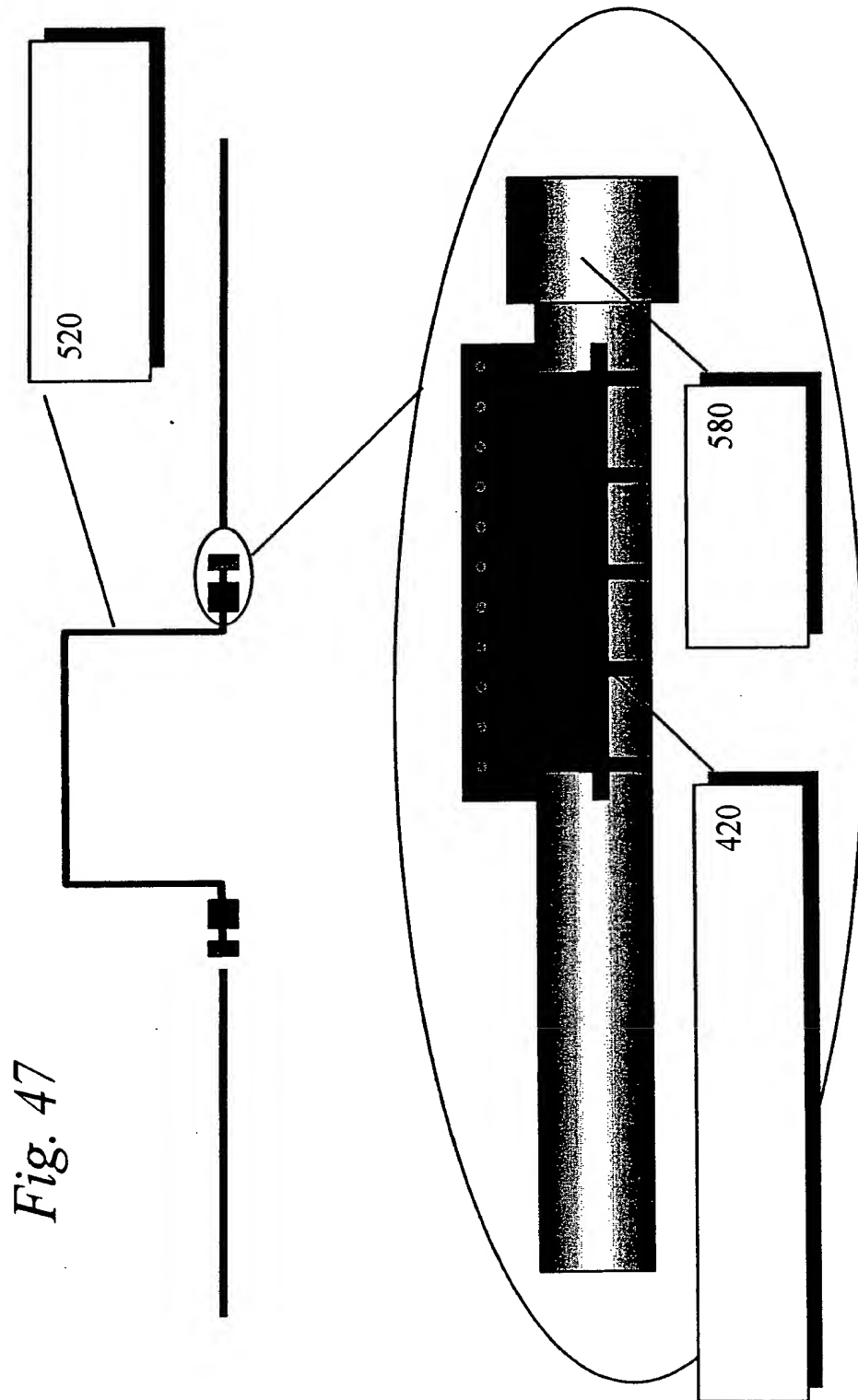
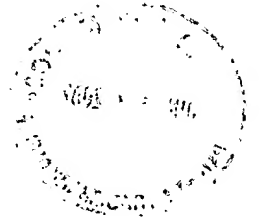


Fig. 47

Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

49/53

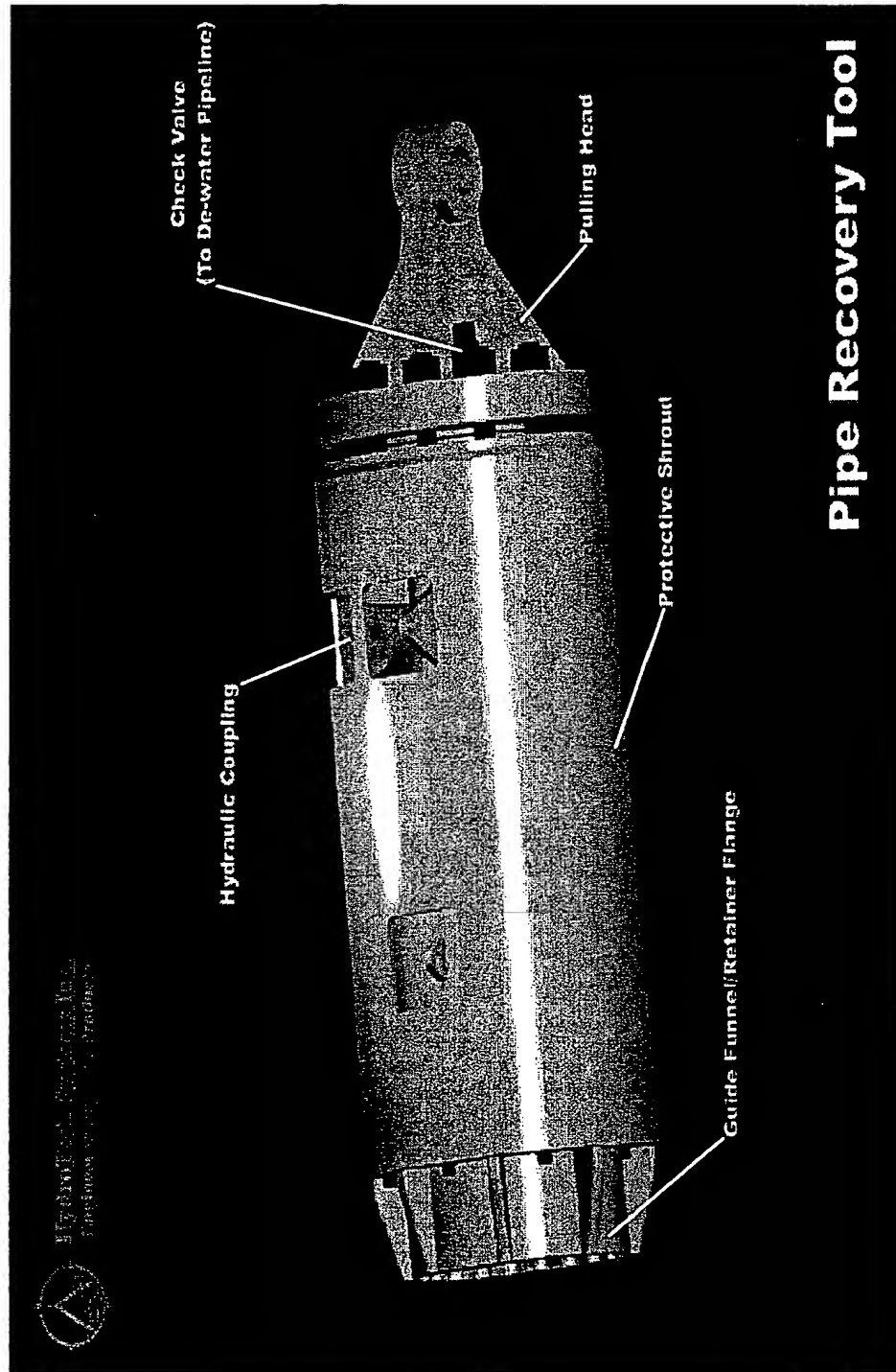


Fig. 48

Appl. No. 09/988,821; Filed: November 20, 2001
 Dkt. No. 1757.0260001; Group Art Unit: 3662
 Inventor(s): Vidal *et al.*; Tel: 202/371-2600
 Title: Cable Installation

50/53

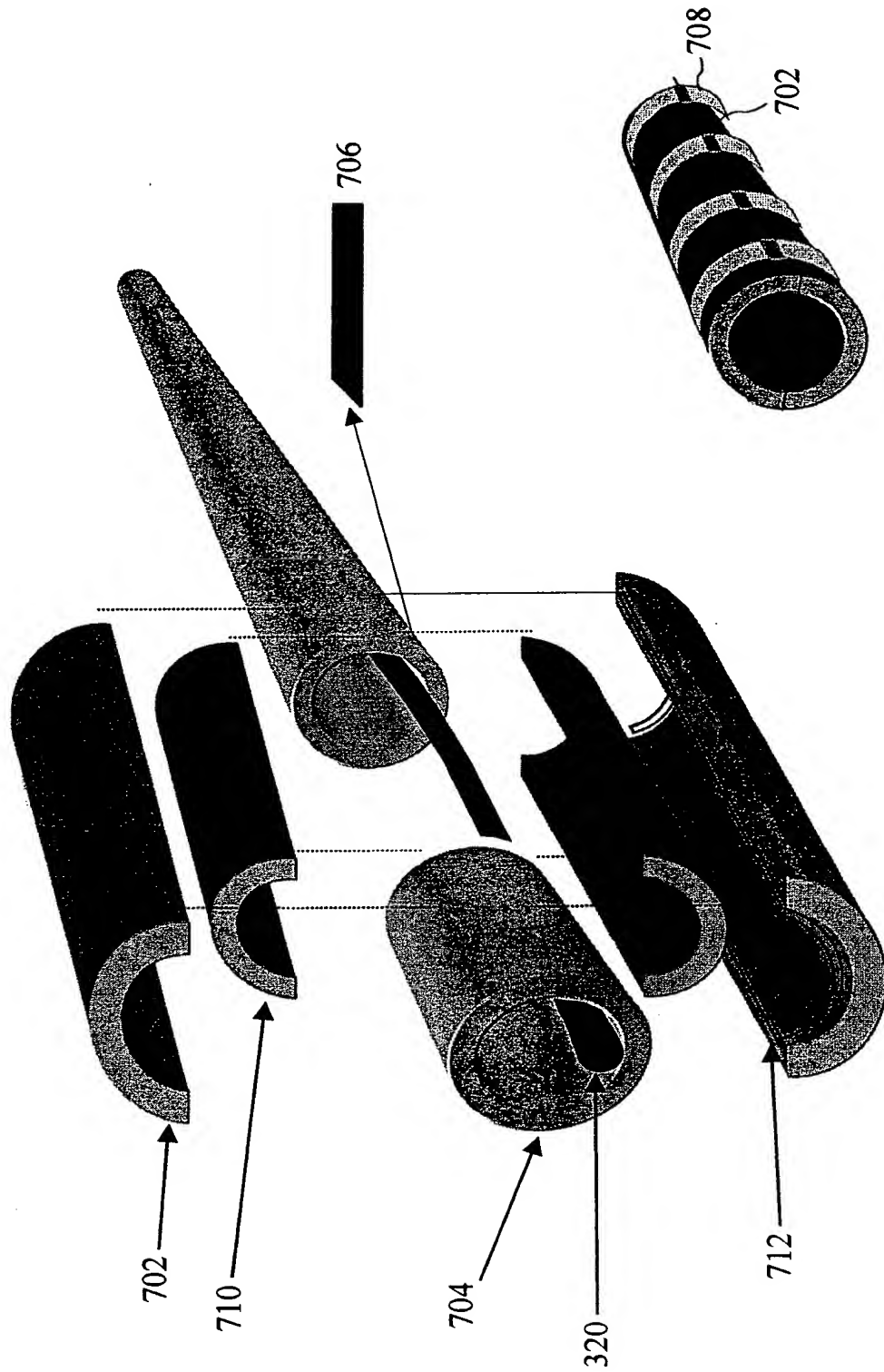


Fig. 49

Appl. No. 09/988,821; Filed: November 20, 2001
Dkt. No. 1757.0260001; Group Art Unit: 3662
Inventor(s): Vidal *et al.*; Tel: 202/371-2600
Title: Cable Installation

51/53

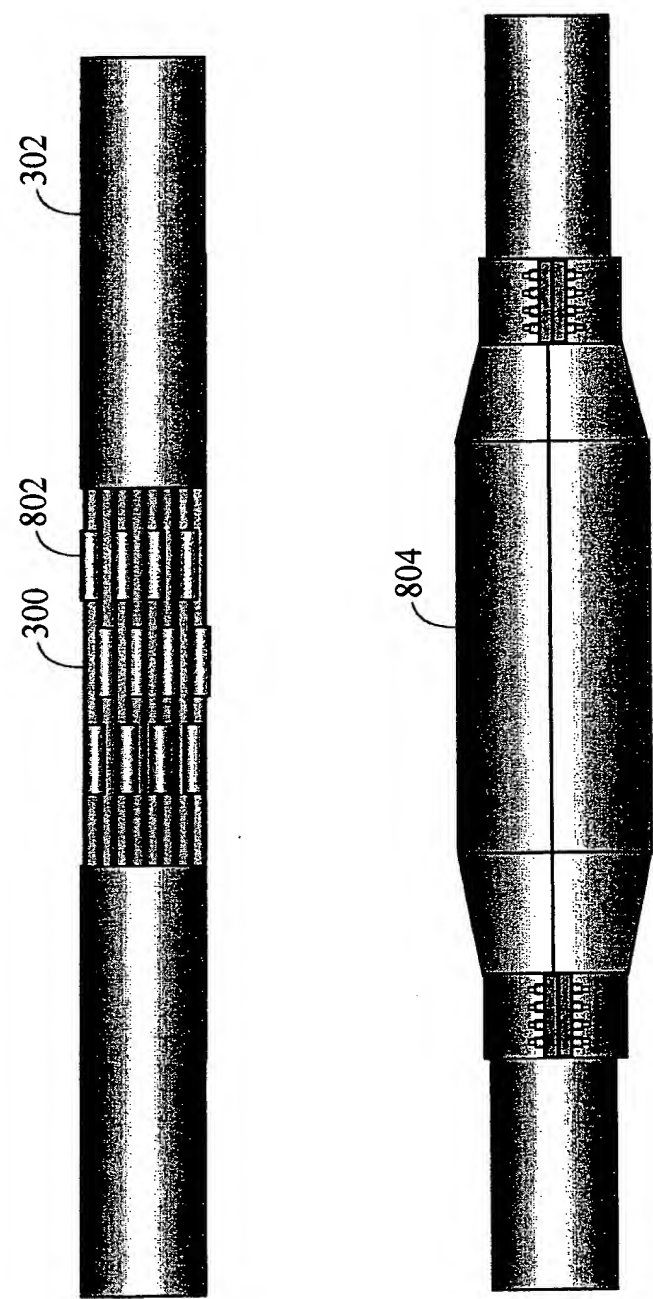


Fig. 50

640

Appl. No. 09/988,821; Filed: November 20, 2001
Dkt. No. 1757.0260001; Group Art Unit: 3662
Inventor(s): Vidal *et al.*; Tel: 202/371-2600
Title: Cable Installation

53/53

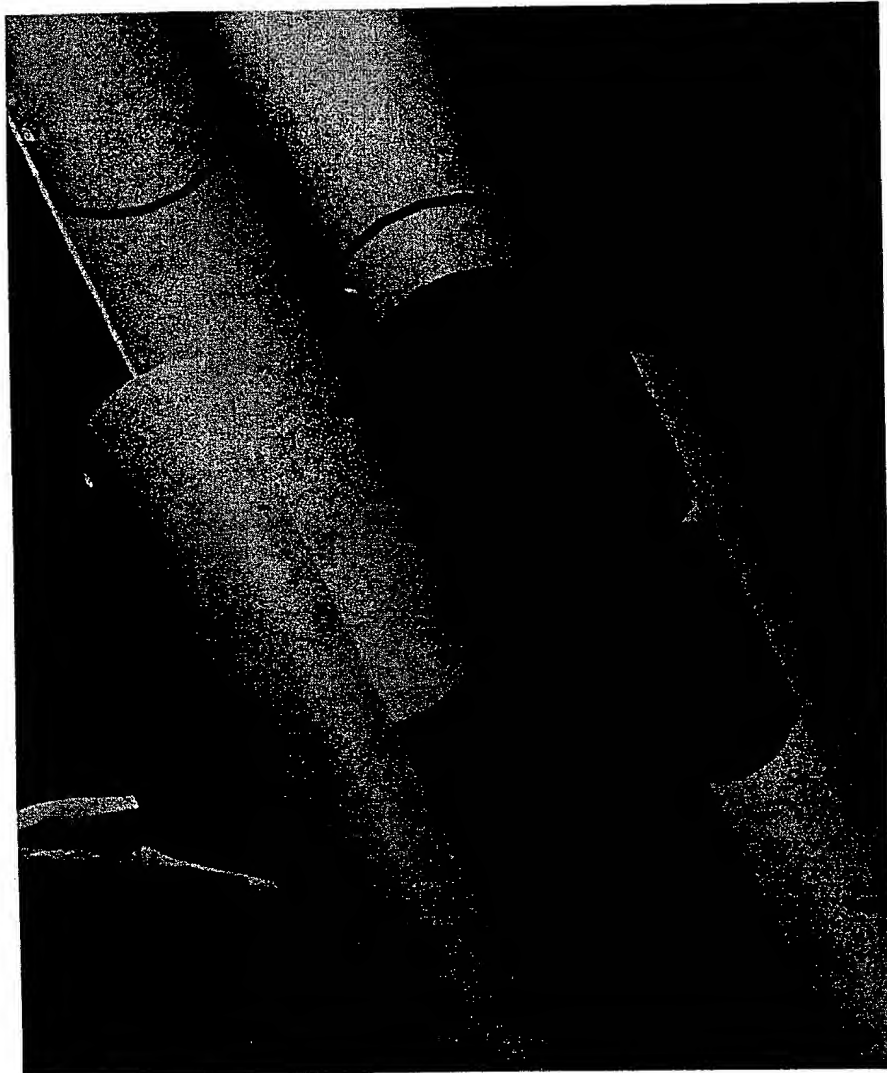
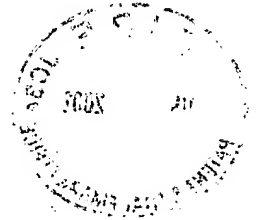


Fig. 53